XR-7052

SERVICE MANUAL

REVISED

West Germany Model

SPECIFICATIONS

Power amplifier section

Outputs	Speaker outputs (sure seal connectors) Preamp outputs (phono jacks)
Speaker impedance	3.2 – 8 ohms
Maximum power output	25W + 25W (at 4 ohms)* (4 channels driven) *Measured at 14.4 V

Cassette player section

Tape	Prerecorded tape cassette
Head	Playback head
Tape track	4-track 2-channel stereo
Frequency response	40 – 16,000 Hz
Signal-to-noise ratio	With type I cassette 55 dB (A-weighted) (Dolby B NR off)
Dolby B NR effect	8 dB
Wow and flutter	0.15% (WRMS)

Tuner section

System	Superheterodyne tuner Computerized quartz-locked synthesizer system
Antenna terminal	FM/AM external antenna connector FM/AM power antenna relay control lead

FM tuner section

Frequency range

Frequency range	87.5—108 MHz
Tuning interval	50 kHz

Model Name Using Similar Mechanism	XR-7050
Tape Transport Mechanism	MG-48-83

Intermediate frequency	10.7 MHz
Usable sensitivity	12.5 dBf (75 ohms)
Sensitivity at 50 dB quieting	17.5 dBf (75 ohms)
Selectivity	70 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (monaural)
Harmonic distortion at 1 kHz	0.9% (stereo), 0.5% (monaural)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2.0 dB

AM tuner section

Frequency range

Frequency range	531 – 1,602 kHz
Tuning interval	9 kHz

Intermediate frequency

459 kHz

Sensitivity 34 μV

— Continued on page 2 —

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

FM/AM CASSETTE CAR STEREO

SONY®

9-953-403-13

Including 9-953-403-12
9-953-403-81

General

Output lead	Power antenna relay control lead
Power requirements	
	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 160 mm (w/h/d) ($7^1/_8 \times 2 \times 6^3/_8$ inches) not incl. projecting parts and controls
Mounting dimensions	Approx. 182 × 53 × 145 mm (w/h/d) ($7^1/_4 \times 2^1/_8 \times 5^3/_4$ inches) not incl. projecting parts and controls
Weight	Approx. 1.3 kg (2 lb 14 oz)
Accessories supplied	
	Mounting hardware (1 set)
	Fuses (1 set)

Features

Tuner section

- **Memory preset tuning function** allows you to store 6 stations for each band in memory.
- **Precise tuning is possible** with the digital synthesizer system.

Cassette deck section

- **Auto-reverse function** to listen to both sides of a cassette repeatedly.
- **Automatic Music Sensor (AMS)** to locate the beginning of a selection during playback.
- **The Dolby B NR system** reduces tape hiss noise during playback.
- **METAL button** for high-performance metal tapes.

General

- **Direct function system** allows you to switch the function between radio reception and tape playback directly.
- You can control the balance of the front speakers and the rear speakers in a 4-speaker system with an additional amplifier as well as with the built-in amplifier (Multi-fader system).
- **Traffic information broadcast** can be received.
- **Automatic loudness circuit** to reinforce the bass and treble automatically when listening at a low volume.
- **Maximum power output of 25W + 25W.**

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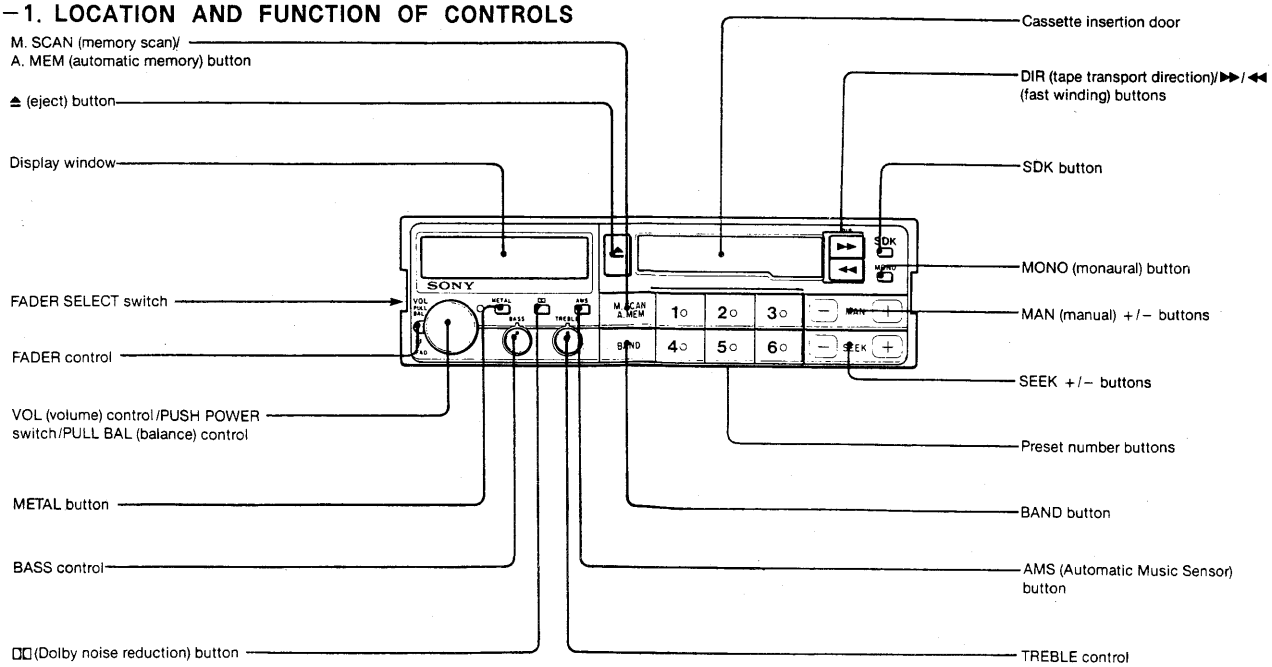
SECTION 1
GENERAL

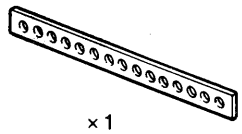
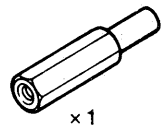
1−1. LOCATION AND FUNCTION OF CONTROLS



1–2. CONNECTIONS

Supplied Mounting Hardware
Matériel de montage fourni

The numbers in the list are keyed to those in the instructions.
Les numéros de la liste correspondent à ceux mentionnés dans les instructions.

① 3-310-655-01  ×1	② 3-223-210-01  ×1	③ 3-323-208-01 ×1
④ 7-682-179-01 ×1	⑤ 7-684-025-04 ×1	⑥ 7-682-548-04 ×1

Precautions

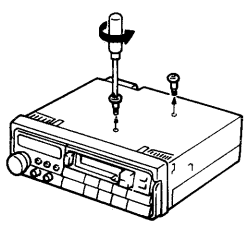
- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it should be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Précautions

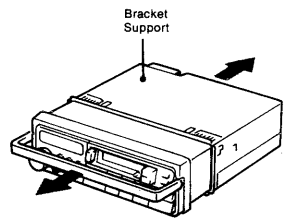
- Choisir soigneusement l'emplacement de sorte que l'appareil ne gêne pas la conduite.
- Eviter d'installer l'appareil là où il serait soumis à de hautes températures, telles que celles du rayonnement solaire direct ou de l'air chaud du chauffage, là où il serait exposé à la saleté, à la poussière excessive ou à de violentes vibrations.
- Pour une installation sûre, s'assurer de n'utiliser que le matériel de montage fourni.

To Install the Unit in the Dashboard
Encastrement de l'appareil dans le tableau de bord

1 Remove the lock screws.
Enlever les vis de verrouillage.

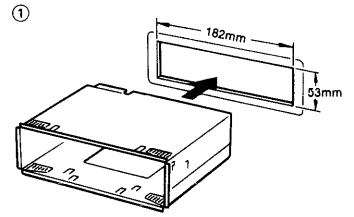


2 Remove the bracket.
Enlever le support.

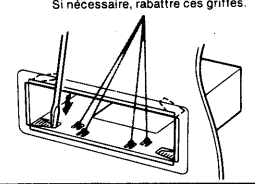


3 Install the bracket in the dashboard.
Fixer le support dans le tableau de bord.

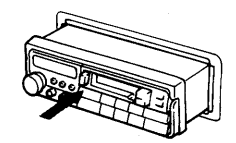
①



② Bend these claws, if necessary.
Si nécessaire, rabattre ces griffes.



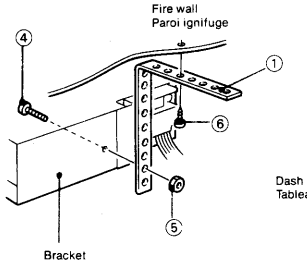
4 Secure the unit.
Fixer l'appareil.



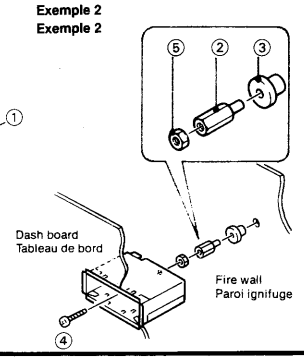
Push in the unit until it is locked firmly.
Pousser l'appareil jusqu'à encliquetage.

To Support the Unit
Fixation de l'appareil

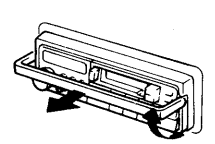
Example 1
Exemple 1



Example 2
Exemple 2



To Remove the Unit
Dépose de l'appareil



This prevents your car stereo set from being stolen.

Ceci fait office d'anti-vol.

Caution

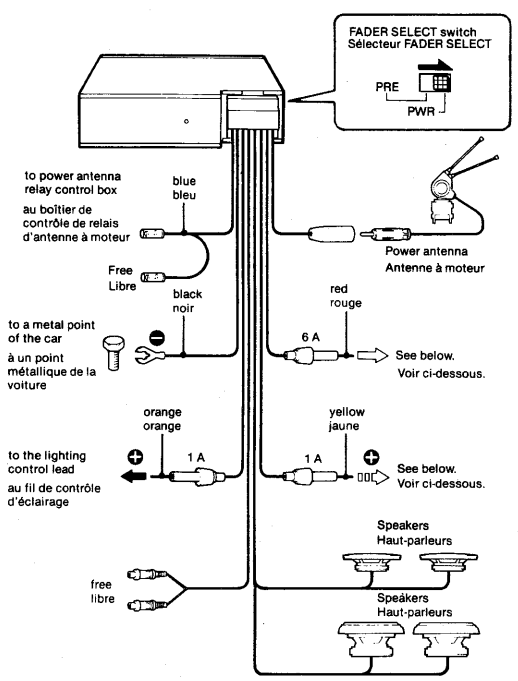
- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires (coloured in black) to a common ground point.**

Attention

- Cet appareil est conçu pour fonctionner sur courant continu de 12 V avec masse négative.
- Avant de procéder aux connexions, débrancher la borne de masse de la batterie de voiture pour éviter tout court-circuit.
- Raccorder le cordon d'alimentation **rouge** en dernier lieu et s'assurer de le raccorder à la borne d'alimentation positive de 12 V. Celle-ci est énergétisée lorsque la clé de contact est à la position accessoire.
- **Tirer tous les fils de masse (noirs) en un même point.**

System Connection
Connexion du système

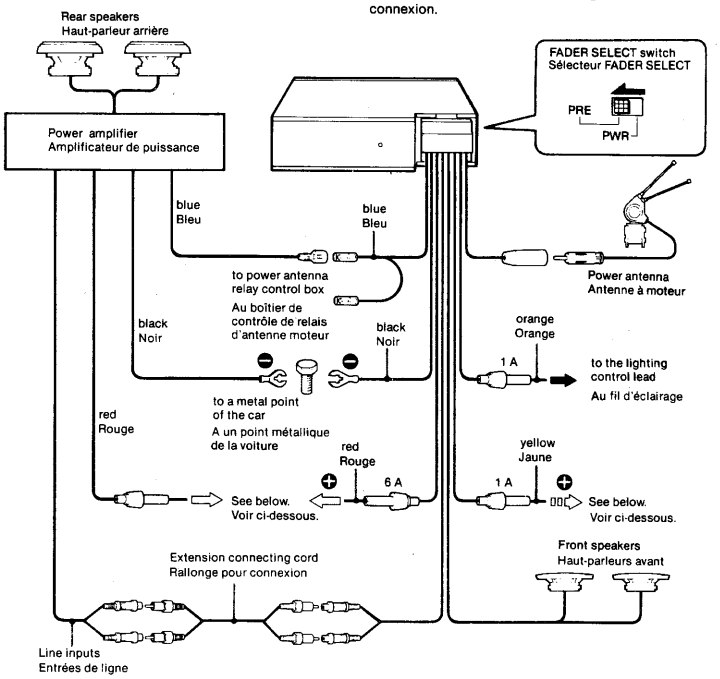
2- or 4-speaker system connection with the built-in amplifier
Connexion du système à 2 ou 4 haut-parleurs avec l'amplificateur incorporé



4-speaker system connection with an additional power amplifier
Connexion avec un système à 4 haut-parleurs avec un amplificateur supplémentaire

Connect the front speakers to this unit and the rear speakers to the additional power amplifier. You can enjoy powerful 4-speaker system. The FADER control activates in this connection, too.

Connecter les haut-parleurs avant à cet appareil et les haut-parleurs arrière à l'amplificateur supplémentaire. Il est ainsi possible d'avoir un système à 4 haut-parleurs. Le réglage FADER active également cette connexion.

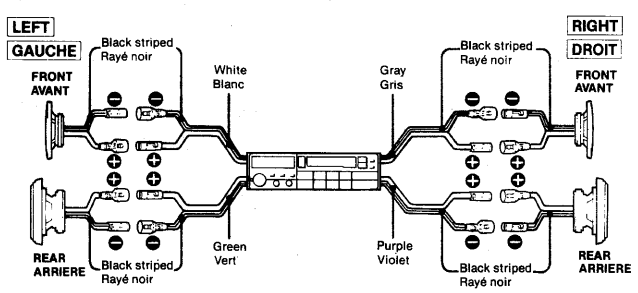


: to the + 12 V power terminal which is energized in the accessory position of the ignition key
A la borne + de 12 V qui est énergétisée lorsque la clé de contact se trouve sur la position accessoire.

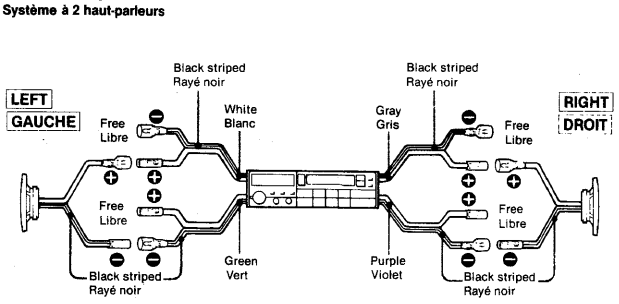
: to the + 12 V power terminal which is energized at all times
A la borne + de 12 V qui est énergétisée en permanence.

Speaker Connection
Connexion des Haut-Parleurs

For 4-speaker system
Système à 4 haut-parleurs



For 2-speaker system
Système à 2 haut-parleurs



Notes on speaker connection

- Use speakers with an impedance of 3.2 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.

Remarques sur le raccordement des haut-parleurs

- Utiliser des haut-parleurs d'une impédance de 3,2 à 8 ohms et d'une puissance admissible adéquate, sinon les haut-parleurs risquent d'être endommagés.
- Ne pas raccorder les bornes des haut-parleurs au châssis de la voiture et ne pas raccorder le haut-parleur droit au haut-parleur gauche.
- Ne pas raccorder les haut-parleurs en parallèle.

SECTION 2
MICROCOMPUTER SPECIFICATION
(μPD1708AG-023-00)

[IC001 (μ PD1708AG-023-00)]

2-1. Pin Function

Pin No.	Description
1—4	LCD's segment signal output terminal.
5, 6	LCD's common signal output terminal.
7, 33	Power supply terminal (internally connected).
8	FM local oscillation signal input terminal.
9	AM local oscillation signal input terminal.
10	GND
11	Unused.
12	PLL error output terminal. When the local oscillation frequency is higher than a reference frequency, a high signal is output. When it is lower than a reference frequency, a low signal is output. When both frequencies do not coincide, the floating status is entered.
13	Goes high to activate the PLL block. Goes low to stop it.
14	Unused.
15, 16	Clock oscillation terminal.
17	MUTE signal output terminal.
18	STEREO/MONAURAL select output terminal. Goes high when STEREO is selected, and goes low when MONAURAL is selected.
19	Band select signal output terminal. Goes high during FM, and goes low during AM.
20	Unused.
21—24	Key matrix signal input terminal.
25—31	Key scanning signal output terminal.
32	DX/LOCAL select signal output terminal. Goes low during DX, and goes high during LOCAL.
34 − 52	LCD's segment signal output terminal.

SECTION 3
MECHANICAL ADJUSTMENTS

3-1. PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   playback head　　pinch roller
   capstan　　rubber belts
   idlers
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Toreque Measuremnt

	Torque meter	Meter reading
FWD	CQ-102B	35-65g · cm (0.48-0.93oz · inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

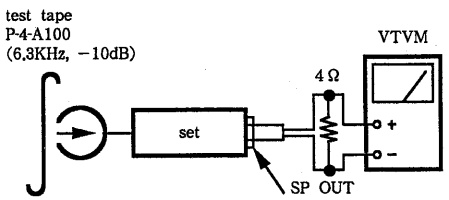
4-1. TAPE SECTION

1. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
2. The adjustments should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

4-1-1. Playback Head Azimuth Adjustment

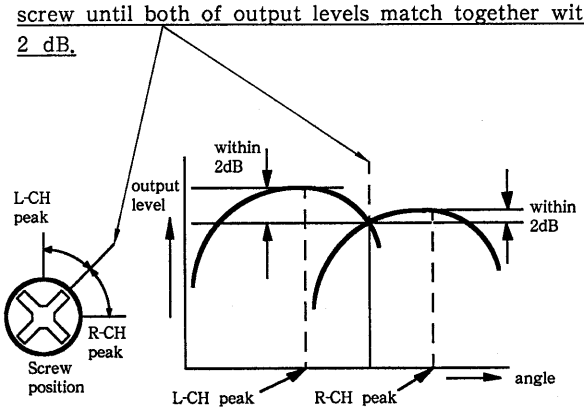
Procedure :

1. Mode : forward playback

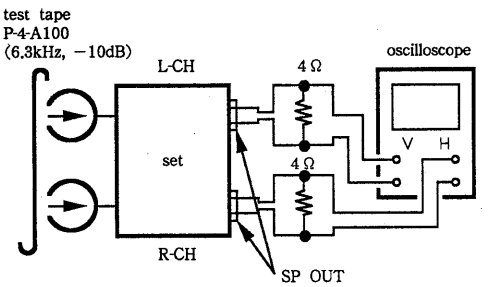


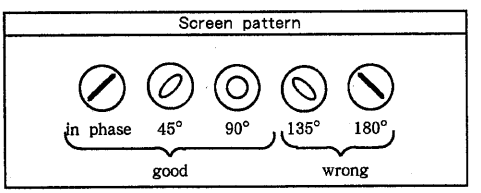
Adjust for forward and reverse direction.

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2 dB.

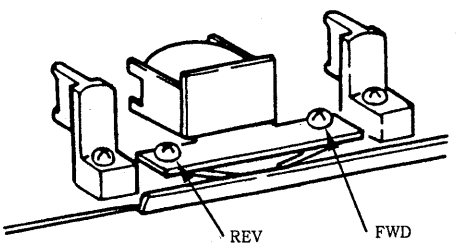


3. Phase Check
   Confirm that phase difference between L-channel and R-channel is within 90° .





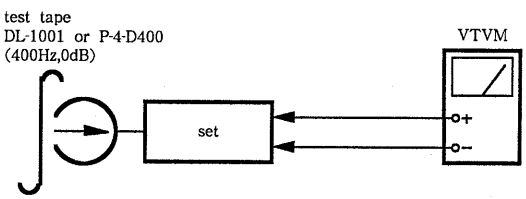
4. Repeat the above adjustment for reverse playback mode.
5. After the adjustment, lock the screws with locking compound.



4－1－2. Dolby Level Adjustment

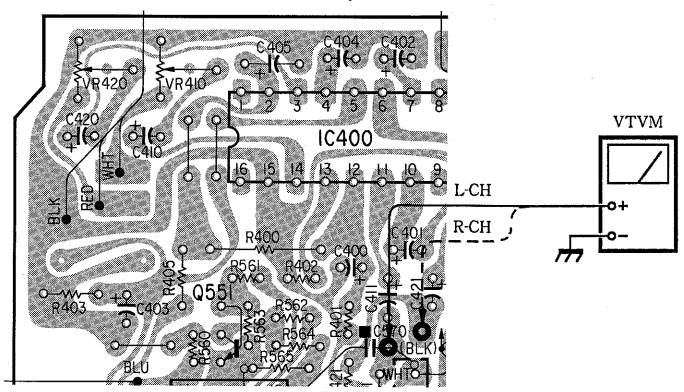
Procedure :

1. Mode : forward playback



2. Adjust VR410 (L-CH) and VR420 (R-CH) so that the VTVM reads 548mV (−3dB).
3. Put the set into the REV mode and check the VTVM reading in 461mV (−4.5dB) to 651mV (−1.5dB).

main board (conductor side)

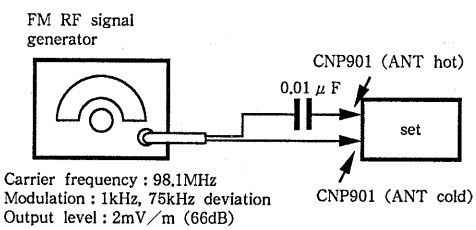


4－2. RADIO SECTION

4－2－1. FM SECTION

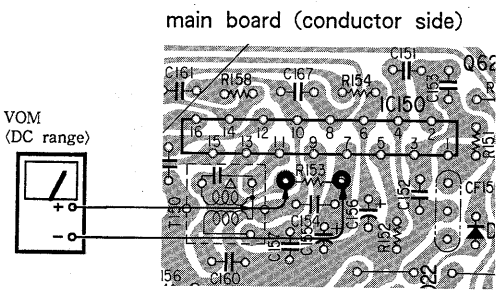
FM Discriminator NULL Adjustment.

Setting :



Carrier frequency : 98.1MHz
Modulation : 1kHz, 75kHz deviation
Output level : 2mV／m (66dB)

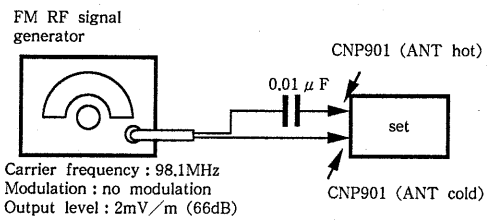
main board (conductor side)



1. Push the TUNING (+,−) button for 98.1MHz.
2. Adjust T150 for 0V reading on the VOM.

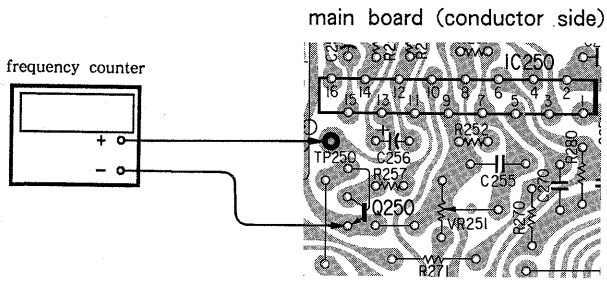
VCO Adjustment

Setting :



Carrier frequency : 98.1MHz
Modulation : no modulation
Output level : 2mV／m (66dB)

main board (conductor side)

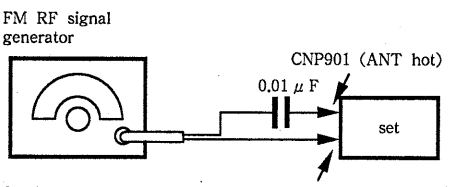


Procedure :

1. Push the TUNING (+,−) button for 98.1MHz.
2. Adjust VR252 for 19kHz ±30Hz reading on the frequency counter.

FM Stereo Separation Adjustment

Setting :



Carrier frequency : 98.1MHz
Modulation : audio (1kHz) : 33.75kHz deviation
pilot (19kHz) : 7.5kHz deviation
sub-channel (38kHz) : 33.75kHz deviation
Output level : 2mV／m (66dB)
Mode : stereo

Procedure :

1. Fully turn VR251 counterclock wise.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	A
R-CH	L-CH	B Adjustment VR250 for minimum reading.
R-CH	R-CH	C
L-CH	R-CH	D Adjustment VR250 for minimum reading.

L-CH Stereo separation : Ⓐ − Ⓑ
R-CH Stereo separation : Ⓒ − Ⓓ
The separations of both channels should be equal.

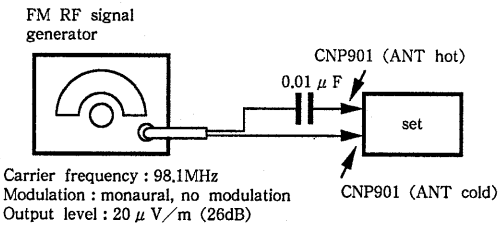
2. Adjust so that separation is maximized.
3. Set the output level of a signal generator to 199.5 μ V／m (46dB) and adjust VR251 so that separation is 10dB.

FM Auto-scan Stop Level Adjustment

Note :Be sure to perform this adjustment before "AM Auto-scan Stop Level Adjustment"

Setting :

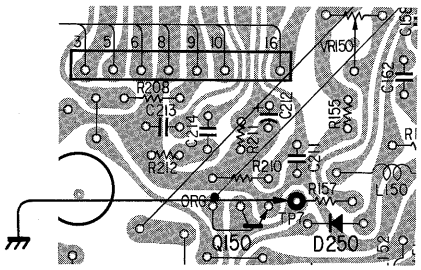
BAND switch : FM MONO
Frequency : 98.0MHz



Procedure :

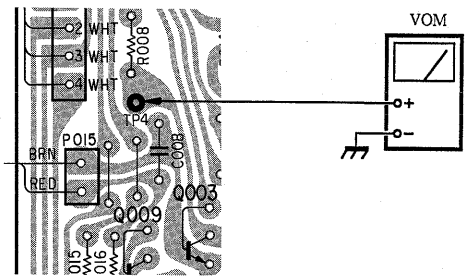
1. Using a lead wire, connect Q150 collector (TP7) and GND.

main board (conductor side)



2. Adjust and set VR150 at the point where voltage reading suddenly changes from low to high.
(reference value : around 9.4V on collector (TP4) of Q003)

main board (conductor side)

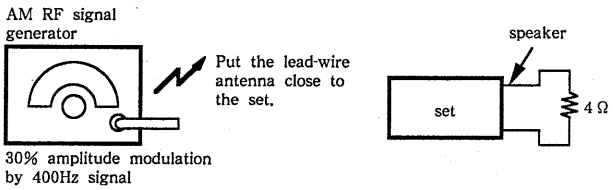


3. After adjustment is completed remove the lead wire.

4-2-2. AM SECTION

Setting :

BAND switch : AM

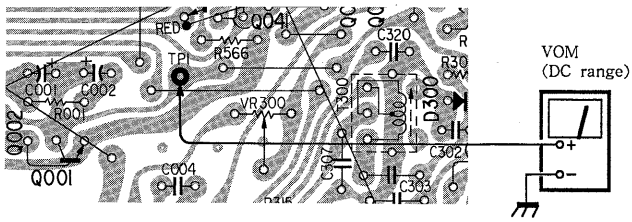


● Repeat the procedures in each adjustment several times, and the OSC voltage and tracking adjustments should be finally done by the trimmer capacitors.

AM OSC Voltage Adjustment

Setting :

main board (conductor side)



Procedure :

1. Set BAND selector switch to AM.
2. Adjust T300 so that the VOM reading satisfies the specitication.

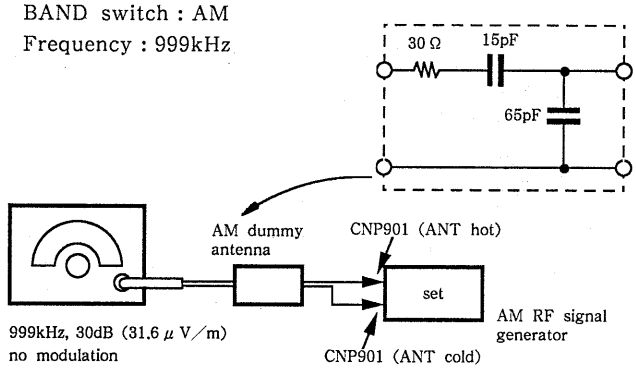
Specification

531kHz 1.1−1.2V
1,602kHz 7.0−8.0V

AM Auto-scan Stop Level Adjustment

Setting :

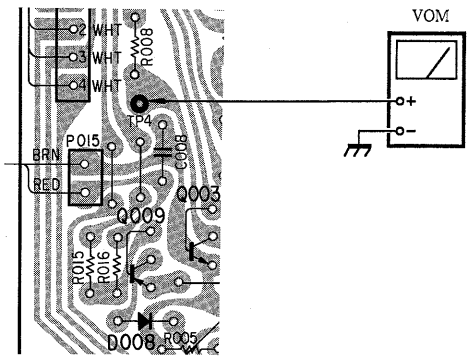
BAND switch : AM
Frequency : 999kHz



Procedure :

1. Adjust and set VR300 at the point where voltage reading suddenly changes from low to high.
(reference value : around 9.4V on collector (TP4) of Q003)

main board (conductor side)



AM IF ADJUSTMENT	
Adjust for a maximum reading on VOM	
T303, T304	459kHz

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM	
T301, T302	603kHz
TC300, TC301	1,404kHz

4-3. TRAFFIC INFORMATION SECTION

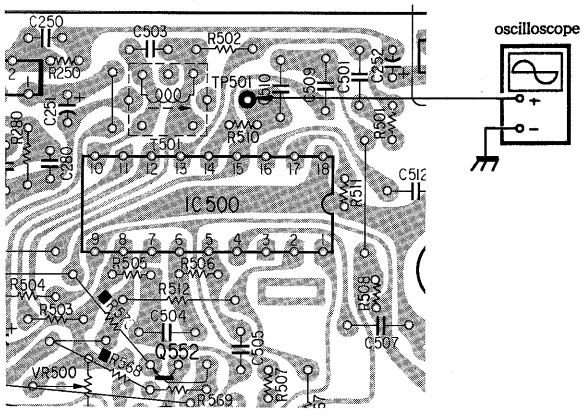
ARI Frequency Adjustment

Note : high input impedance and high sensitivity frequency counter should be used.

Setting :
BAND switch : FM MONO
Frequency : 98.1MHz 2mV/m (66dB)

Procedure :
1. Push the SDK switch.
2. Connect oscilloscope to TP501 , adjust T501 and VR502 to obtain max output of 125Hz.
3. Connect counter to TP550 , and adjust VR551 to obtain 125Hz.
4. Set Vol min , adjust VR550 to obtain +10dBm (2.45V) output of 1kHz.
   Check output is varnished when SDK switched off.
5. Set S.S.G. output 36dB , check scaning to be stoped in the DX mode.
6. Check to stop motor and output is changed radio signal when unit is selected to SDK mode in the tape playing.

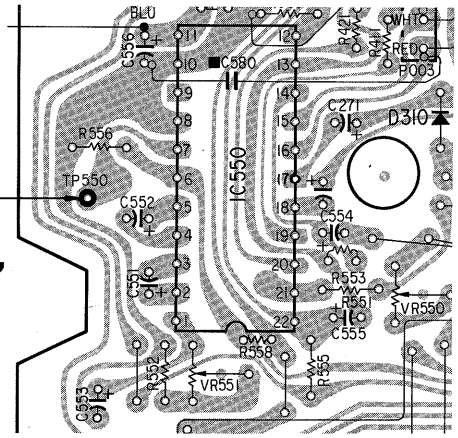
main board (conductor side)



oscilloscope

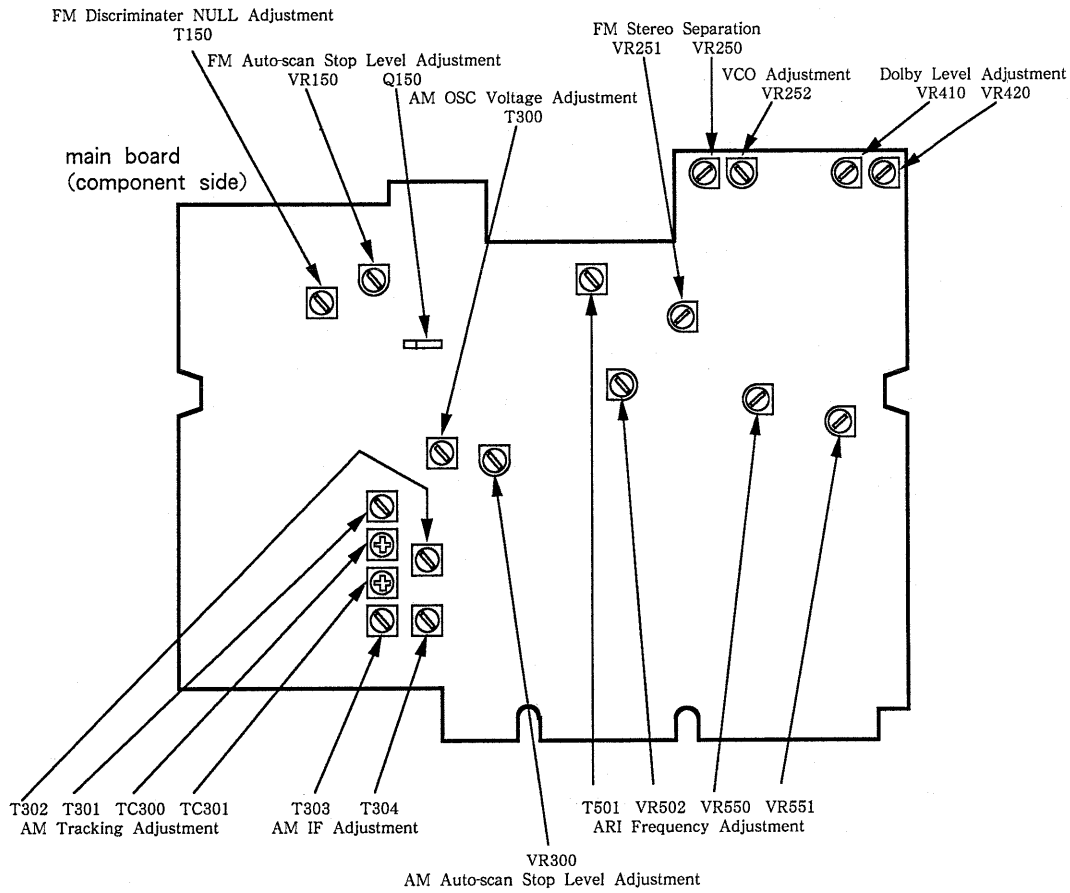
frequency counter

main board (conductor side)



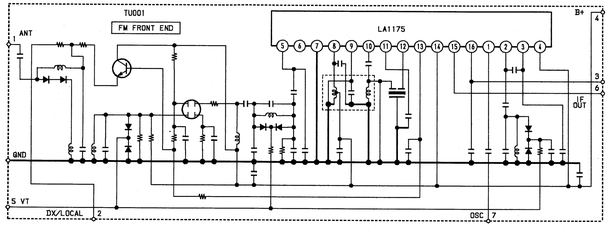
XR-7052

ADJUSTMENT PARTS LOCATION DIAGRAM

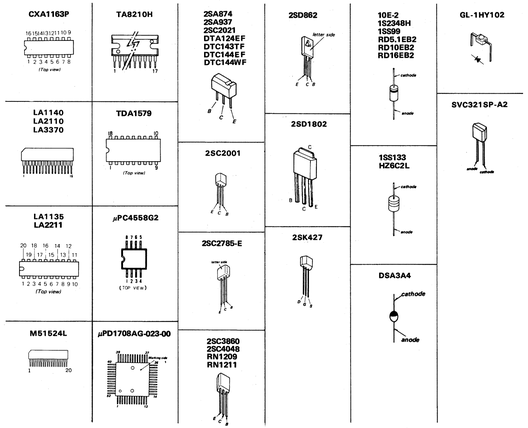


SECTION 5
DIAGRAMS

TUNER UNIT SCHEMATIC DIAGRAM



5-1. SEMICONDUCTOR LEAD LAYOUTS



Note:
- Color code or sleeving over the end of the jacket.

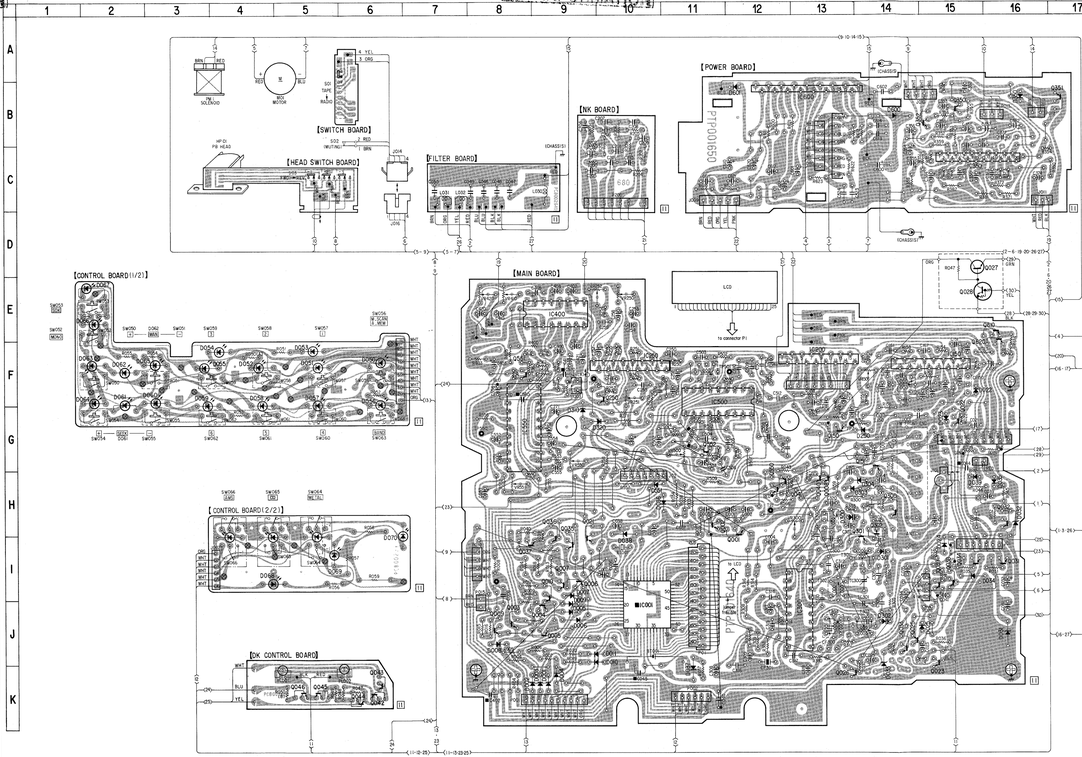
- ○——: parts extracted from the component side.
- ●——: parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- : indicates side identified with part number.
- ⊗ : Through hole.
- : Pattern on the side which is seen.
- : Pattern of the rear side.

SEE ADDITIONAL INFORMATION

● SEMICONDUCTOR LOCATION

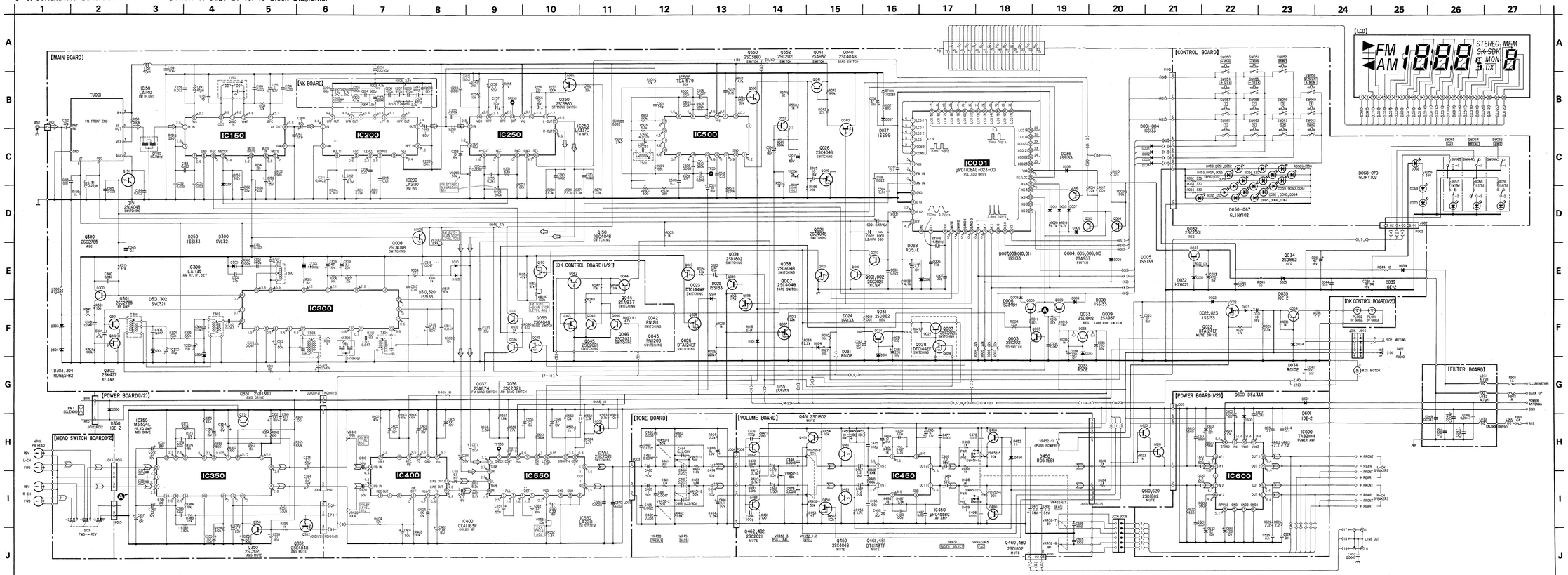
Ref. No.	Location	Ref. No.	Location
IC001	J-10	Q551	F-9
IC150	F-15	Q552	G-11
IC200	F-13	Q610	E-16
IC250	F-10	Q620	F-16
IC300	J-13		
IC350	C-15	D001	K-9
IC400	E-9	D002	K-8
IC450	B-19	D003	K-9
IC500	F-11	D004	K-9
IC550	G-8	D005	J-9
IC600	B-13		
		D006	J-9
		D007	I-9
Q001	H-12	D008	J-8
Q002	H-11	D009	J-9
Q003	J-8	D010	J-9
Q004	J-9		
Q005	J-9	D011	J-9
		D022	F-15
Q006	I-9	D023	G-15
Q007	I-9	D024	I-15
Q008	H-13	D025	J-15
Q009	J-8		
Q010	I-9	D031	J-16
		D032	H-16
Q021	H-9	D033	K-14
Q022	G-15	D034	I-15
Q023	J-15	D035	H-16
Q025	J-14		
Q026	K-13	D036	H-11
		D037	K-11
Q027	D-15	D038	H-10
Q028	E-15	D039	H-15
Q031	H-16	D050	F-6
Q032	H-16		
Q033	J-14	D051	F-5
		D052	F-4
Q034	I-15	D053	F-5
Q035	H-9	D054	F-4
Q036	H-9	D055	F-3
Q037	I-8		
Q038	I-15	D056	F-6
		D057	F-5
Q039	I-15	D058	F-4
Q040	H-13	D059	F-3
Q041	H-12	D060	F-3
Q042	K-6		
Q043	K-6	D061	F-2
		D062	F-2
Q044	K-6	D063	F-2
Q045	K-5	D064	F-2
Q046	K-5	D065	F-3
Q150	G-13		
Q151	G-14	D066	E-2
		D067	E-2
Q250	F-10	D068	I-4
Q300	H-14	D069	I-5
Q301	I-14	D070	I-6
Q302	H-14		
Q350	B-15	D250	G-14
		D300	H-13
Q351	B-17	D301	I-14
Q352	B-15	D302	J-14
Q450	C-19	D303	H-13
Q451	C-19		
Q460	D-20	D304	H-14
		D310	G-9
Q461	D-20	D320	G-10
Q462	D-19	D350	B-16
Q480	D-20	D450	D-20
Q481	D-20		
Q482	D-19	D551	H-10
		D600	B-14
Q550	H-12	D601	B-12

SEE ADDITIONAL INFORMATION



5-3. SCHEMATIC DIAGRAM

● Refer to page 21 for IC Block Diagrams.



SEE ADDITIONAL INFORMATION

SEE ADDITIONAL INFORMATION

SEE ADDITIONAL INFORMATION

XR-7052 XR-7052

SEE ADDITIONAL INFORMATION

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- % : indicates tolerance.
- **Switch**

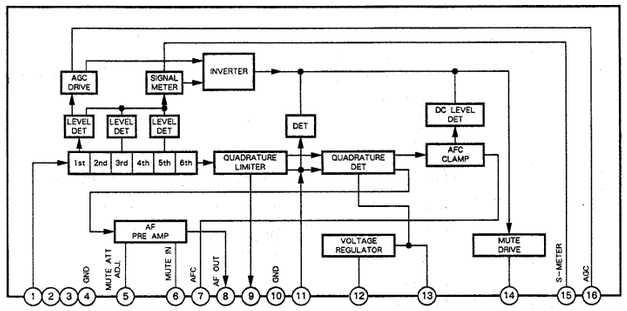
Ref. No.	Switch	Position
S01	TAPE/RADIO	TAPE
S03	FWD/REV	FWD
S04	MUTING	OFF
SW050	MAN +	OFF
SW051	MAN –	OFF
SW052	MONO	OFF
SW053	SDK	OFF
SW054	SEEK +	OFF
SW055	SEEK –	OFF
SW056	M.SCAN/A.MEM	OFF
SW057	1	OFF
SW058	2	OFF
SW059	3	OFF
SW060	4	OFF
SW061	5	OFF
SW062	6	OFF
SW063	BAND	FM
SW064	METAL	OFF
SW065	□□	OFF
SW066	AMS	OFF
SW451	FADER SELECT	OFF

- ═ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from external power voltage terminal.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (50 kΩ/V). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM ⇨ : PB

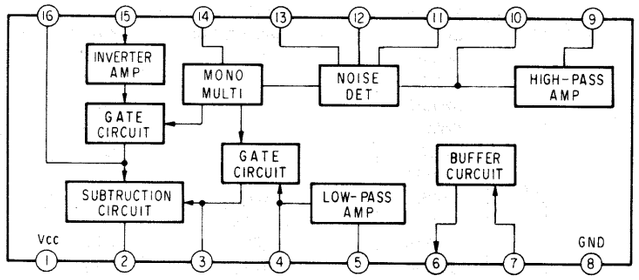
SEE ADDITIONAL INFORMATION

5-4. IC BLOCK DIAGRAM

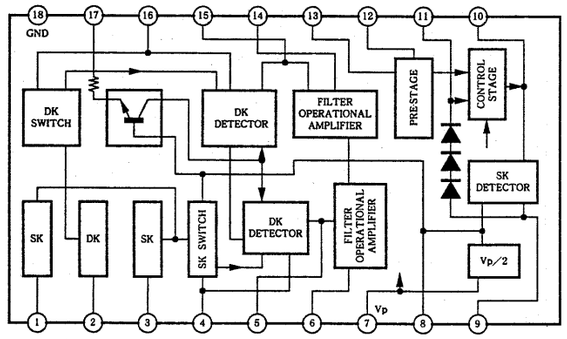
IC150 LA1140



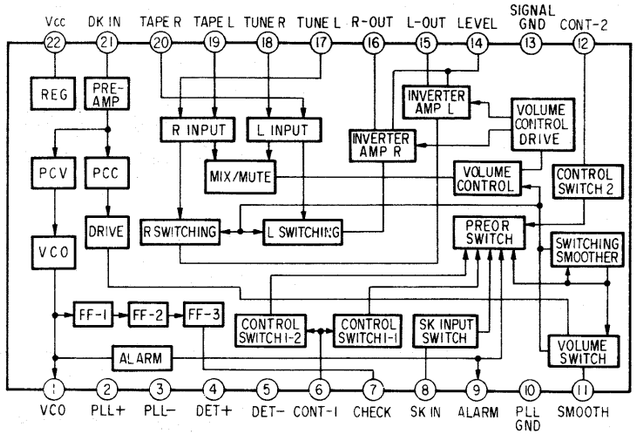
IC200 LA2110



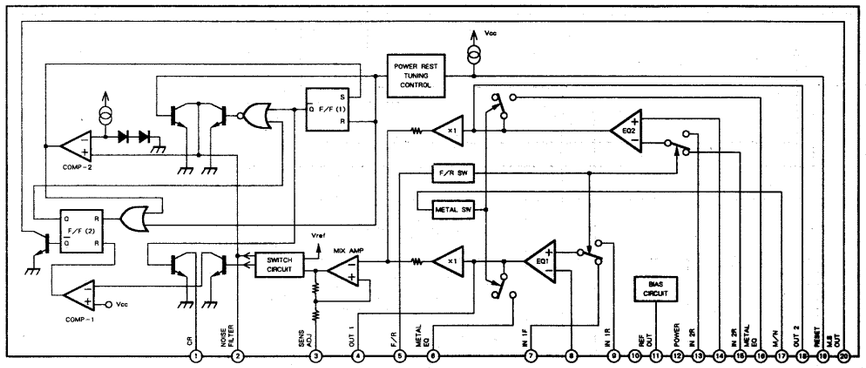
IC501 TDA1579



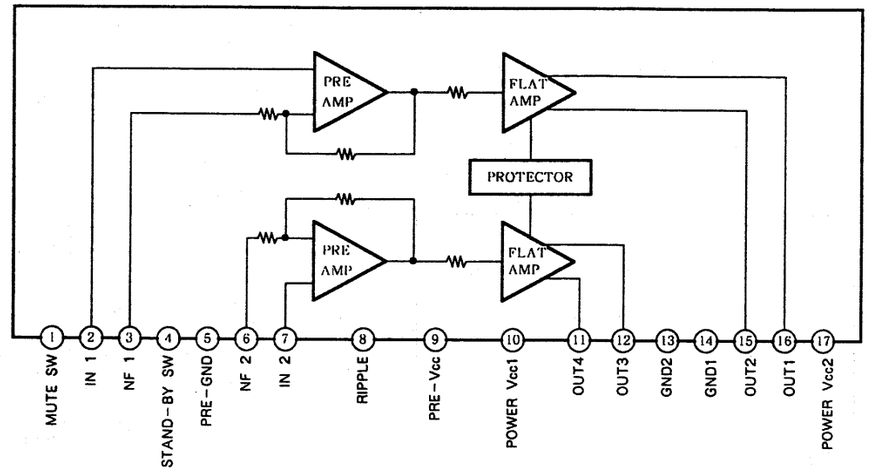
IC551 LA2211



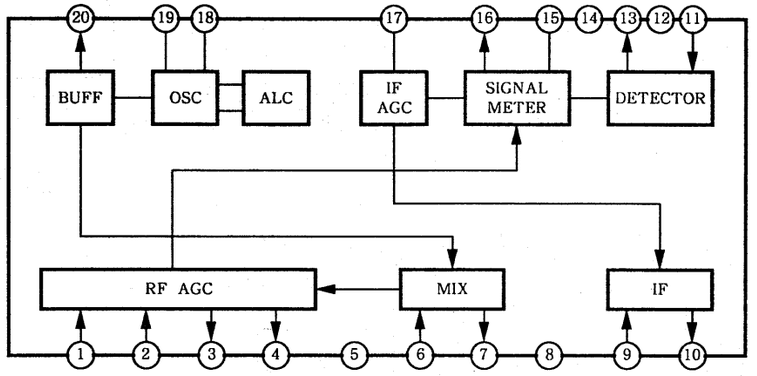
IC350 M51524L



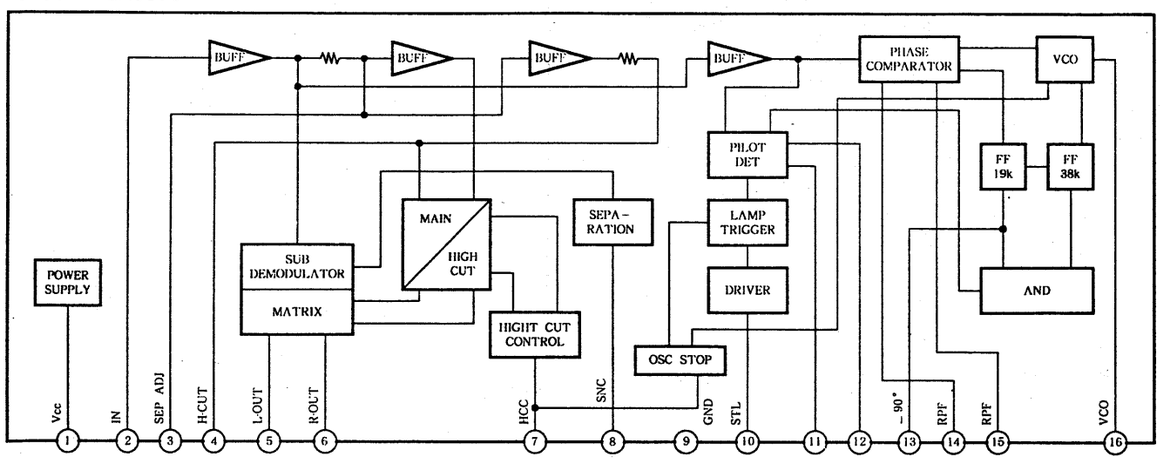
IC500 TA8210H



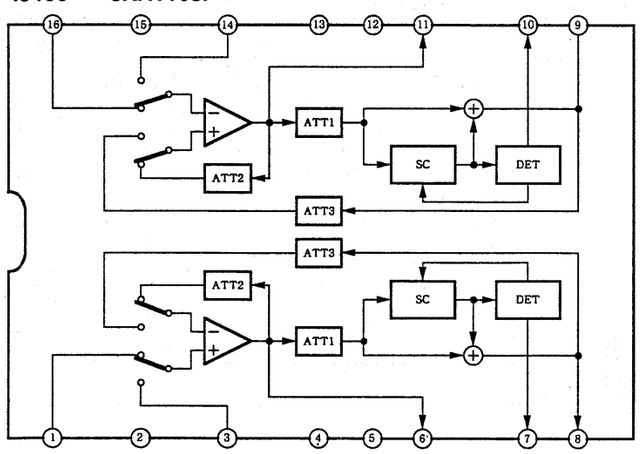
IC300 LA1135



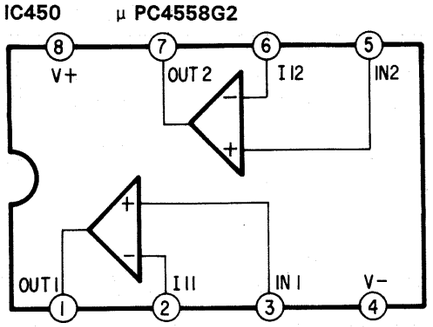
IC250 LA3370



IC400 CXA1163P



IC450 μ PC4558G2

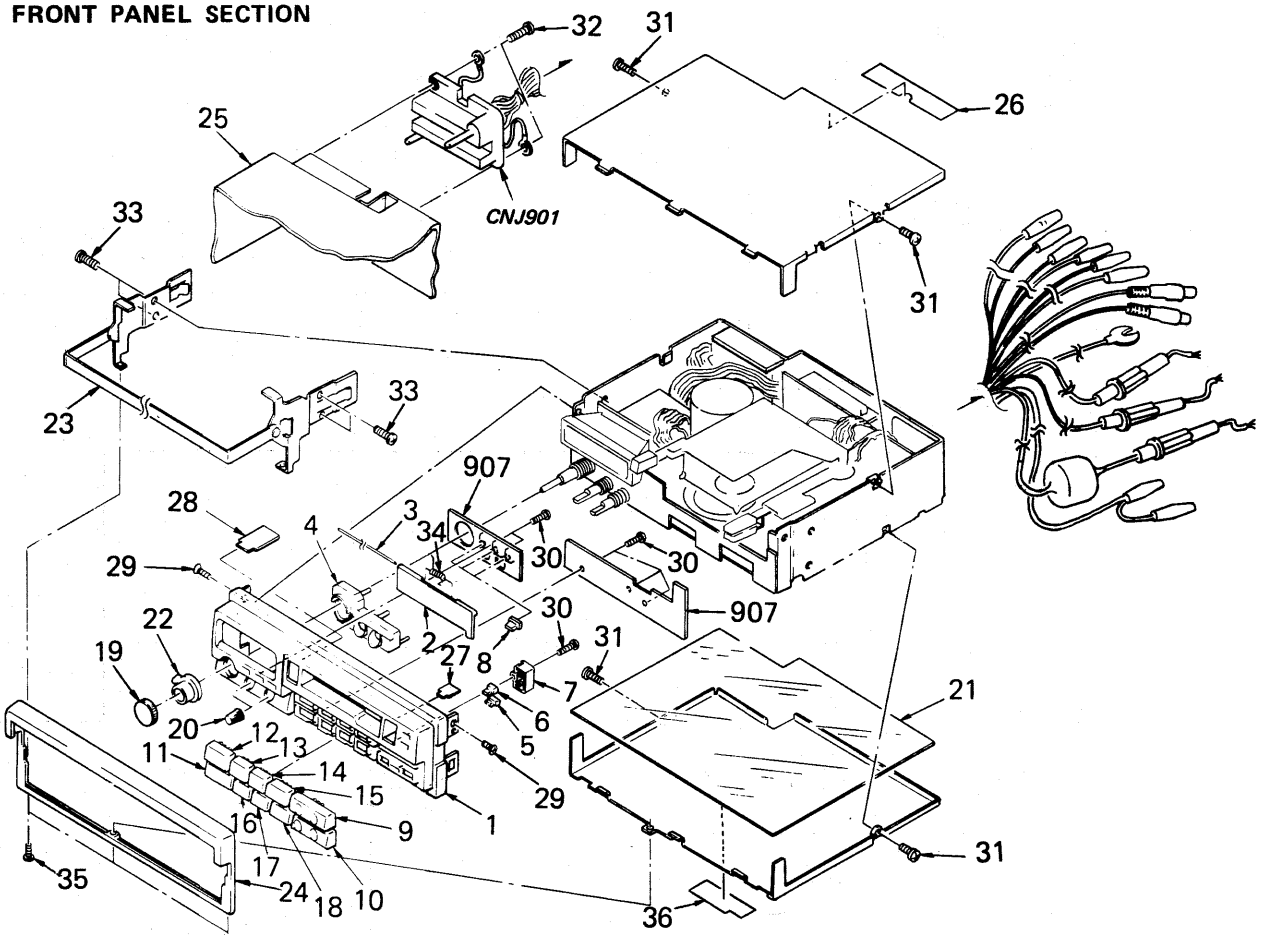


SECTION 6
EXPLODED VIEWS

NOTE:

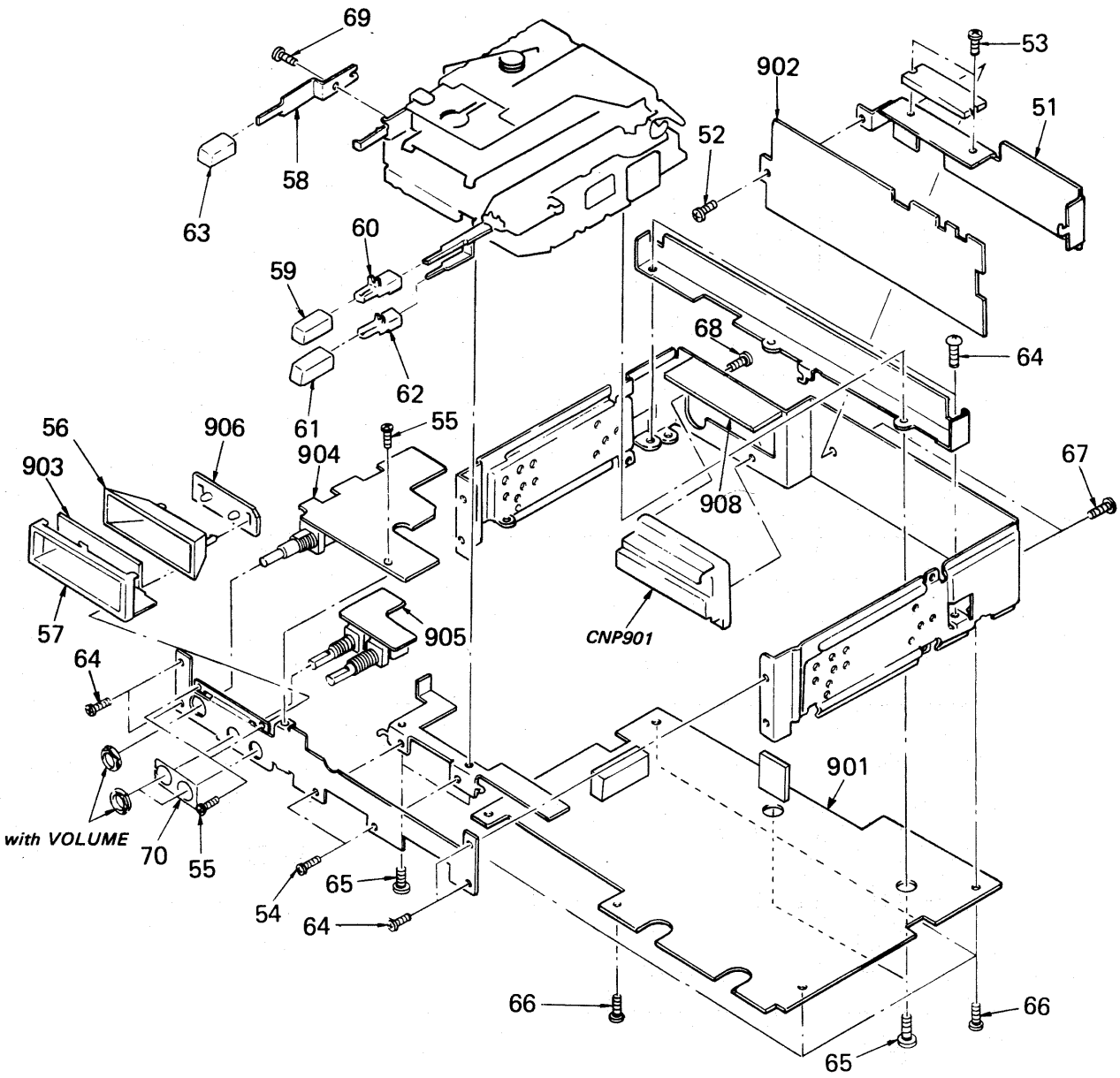
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

6-1. FRONT PANEL SECTION



No.	Part No.	Description	Remarks
1	X-3340-611-1	PANEL ASSY	
2	X-3393-003-3	DOOR ASSY	
3	3-325-708-01	SHAFT, CASSETTE DOOR	
4	3-393-029-01	ILLUMINATOR (VR)	
5	3-393-014-01	BUTTON (A), FUNCTION (SDK)	
6	3-393-014-11	BUTTON (A), FUNCTION (MONO)	
7	*3-393-017-01	HOLDER, BUTTON	
8	3-393-010-01	BUTTON (B), FUNCTION	
9	3-393-022-01	BUTTON, MANUAL	
10	3-393-020-01	BUTTON, SEEK	
11	3-393-021-01	BUTTON, BAND	
12	3-393-023-01	BUTTON, MEMORY	
13	3-393-024-01	BUTTON, PRESET (1)	
14	3-393-024-11	BUTTON, PRESET (2)	
15	3-393-024-21	BUTTON, PRESET (3)	
16	3-393-024-31	BUTTON, PRESET (4)	
17	3-393-024-41	BUTTON, PRESET (5)	
18	3-393-024-51	BUTTON, PRESET (6)	
19	X-3393-005-1	KNOB ASSY, VOLUME	
20	X-3393-006-1	KNOB ASSY, TONE	
21	*3-393-018-01	INSULATOR	
22	3-393-007-01	KNOB, FADER	
23	*X-3393-001-1	HANDLE ASSY	
24	3-340-640-11	FRAME, ORNAMENTAL	
25	*X-3340-603-3	BRACKET ASSY, SECURITY	
26	*3-393-004-01	COVER, DUST	
27	3-393-002-01	ILLUMINATOR (FF/REW)	
28	3-393-003-01	ILLUMINATOR (EJ)	
29	7-685-233-14	SCREW +KTP 2.6X6 TYPE2 NON-SLIT	
30	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
31	7-682-147-01	SCREW +BVTT 3X6 (S)	
32	7-682-548-04	SCREW +B 3X8	
33	3-329-814-01	SCREW (M4X6)	
34	3-342-222-01	SPRING	
35	7-621-772-10	SCREW +B 2X4	
36	*3-340-699-01	LABEL, MODEL NUMBER (AE6)	
907	*1-626-056-11	PC BOARD, CONTROL	
CNJ901	1-559-385-11	CORD (WITH CONNECTOR) (SOCKET)	

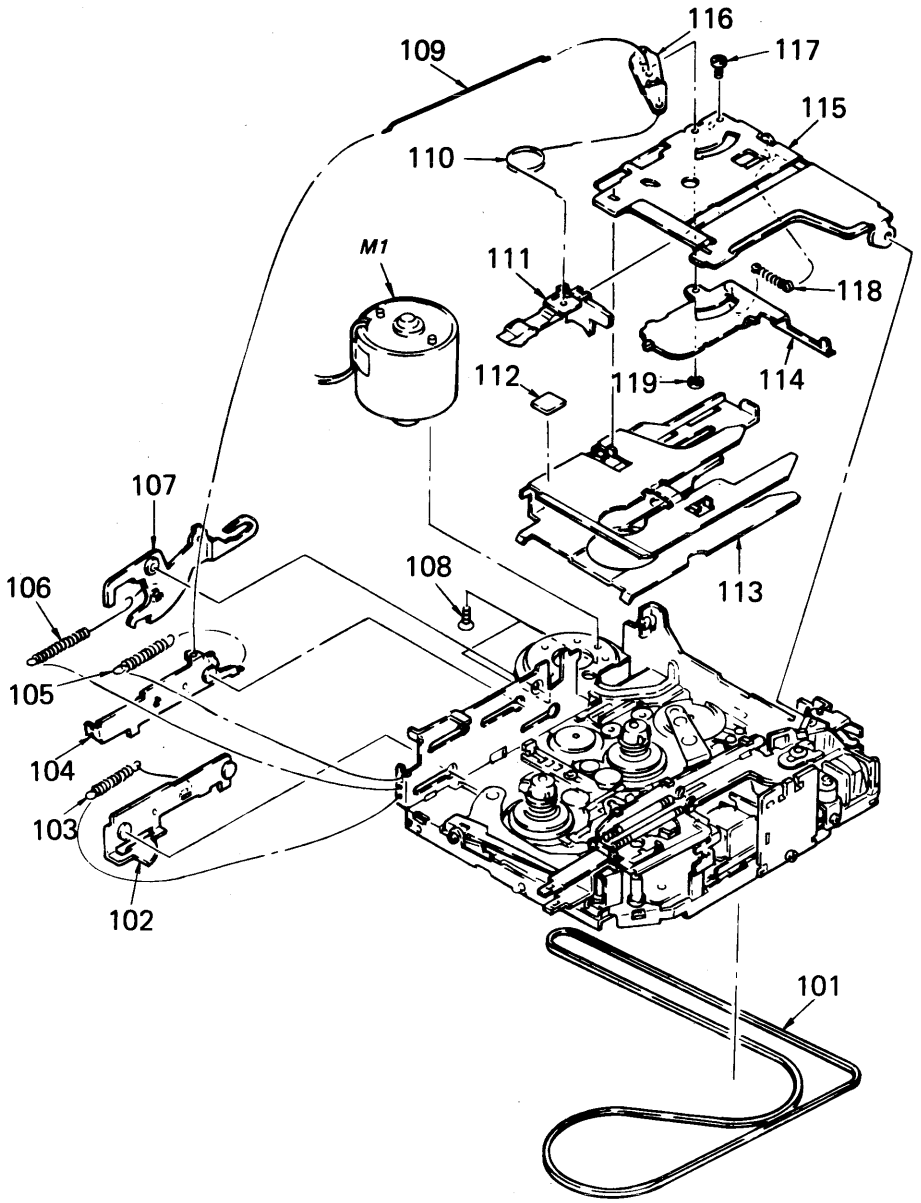
6-2. BOARD SECTION



No.	Part No.	Description	Remarks
51	*3-393-025-01	HEAT SINK	
52	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
53	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
54	7-621-773-86	SCREW +B 2.6X4	
55	7-621-772-20	SCREW +B 2X5	
56	*3-393-030-01	HOUSE, LAMP	
57	*3-393-028-01	HOLDER, LCD	
58	*3-393-016-01	LEVER, EJECT	
59	3-393-012-01	BUTTON, FF	
60	*3-393-009-01	HOLDER (F), BUTTON	
61	3-393-013-01	BUTTON, REW	
62	*3-393-008-01	HOLDER (R), BUTTON	
63	3-393-011-01	BUTTON, EJECT	
64	7-621-770-67	SCREW +BVTT 2.6X6 (S)	

No.	Part No.	Description	Remarks
65	7-682-545-04	SCREW +B 3X4	
66	7-682-547-04	SCREW +B 3X6	
67	7-682-548-04	SCREW +B 3X8	
68	7-685-548-04	SCREW +BTP 3X12 TYPE1	
69	7-627-556-08	SCREW +P 2.6X2.8	
70	*3-393-037-01	INSULATOR (B)	
901	*A-3260-802-A	MOUNTED PCB, MAIN	
902	*A-3270-506-A	MOUNTED PCB, POWER	
903	1-808-370-11	LISPLAY PANEL, LIQUID CRYSTAL	
904	*1-627-041-11	PC BOARD, VOLUME	
905	*1-627-042-11	PC BOARD, TONE	
906	*1-629-216-11	PC BOARD, DK CONTROL	
908	*1-629-217-11	PC BOARD, FILTER	
CNP901	1-574-105-11	CORD (WITH CONNECTOR)	

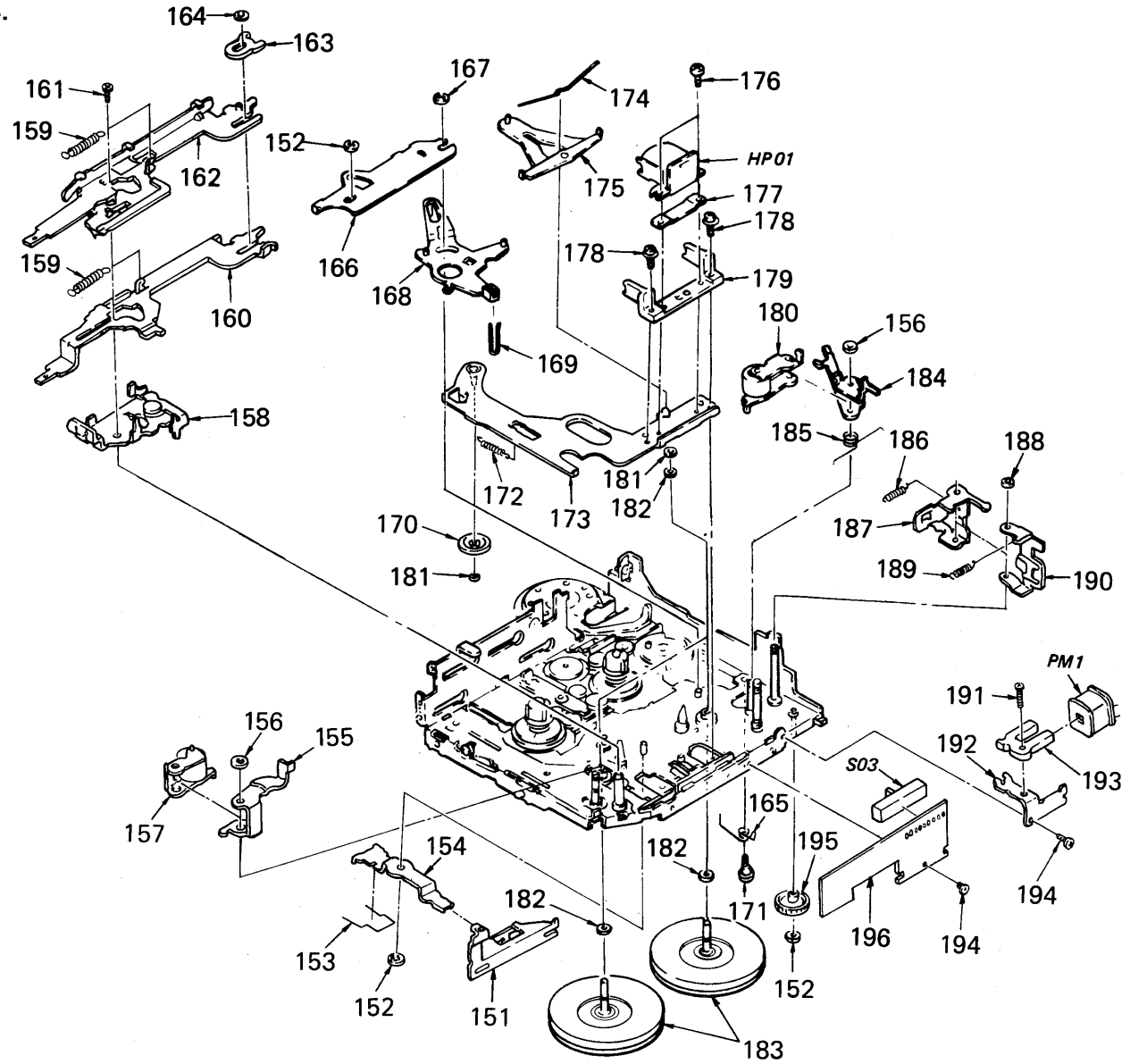
6-3. MECHANISM (MG-48-83)



No.	Part No.	Description	Remarks
101	3-390-635-01	BELT, MAIN	
102	*3-390-660-01	RIVETING ASSY, CH PUSH PLATE (M)	
103	3-390-663-01	SPRING (M)	
104	3-390-613-01	RIVETING ASSY, PUSH LEVER	
105	*3-390-653-01	SPRING	
106	*3-390-654-01	SPRING	
107	*3-390-685-01	LEVER	
108	7-627-452-07	SCREW, PRECISION +K 2X2	
109	*3-390-657-01	SPRING	
110	*3-390-658-01	SPRING	

No.	Part No.	Description	Remarks
111	3-390-689-01	SLIDER, PACK	
112	9-911-839-XX	RUBBER, CUSHION	
113	*3-390-691-01	CASE, CASSETTE	
114	*3-390-690-01	PLATE, C.D	
115	*3-390-688-01	LIFTER, CASE	
116	3-390-615-01	RIVETING ASSY, P.E PLATE	
117	7-627-553-47	SCREW +PTT 2X4 (S)	
118	*3-390-659-01	SPRING	
119	7-624-102-04	STOP, RING 1.5 TYPE-E	
M1	3-390-601-01	MOTOR ASSY	

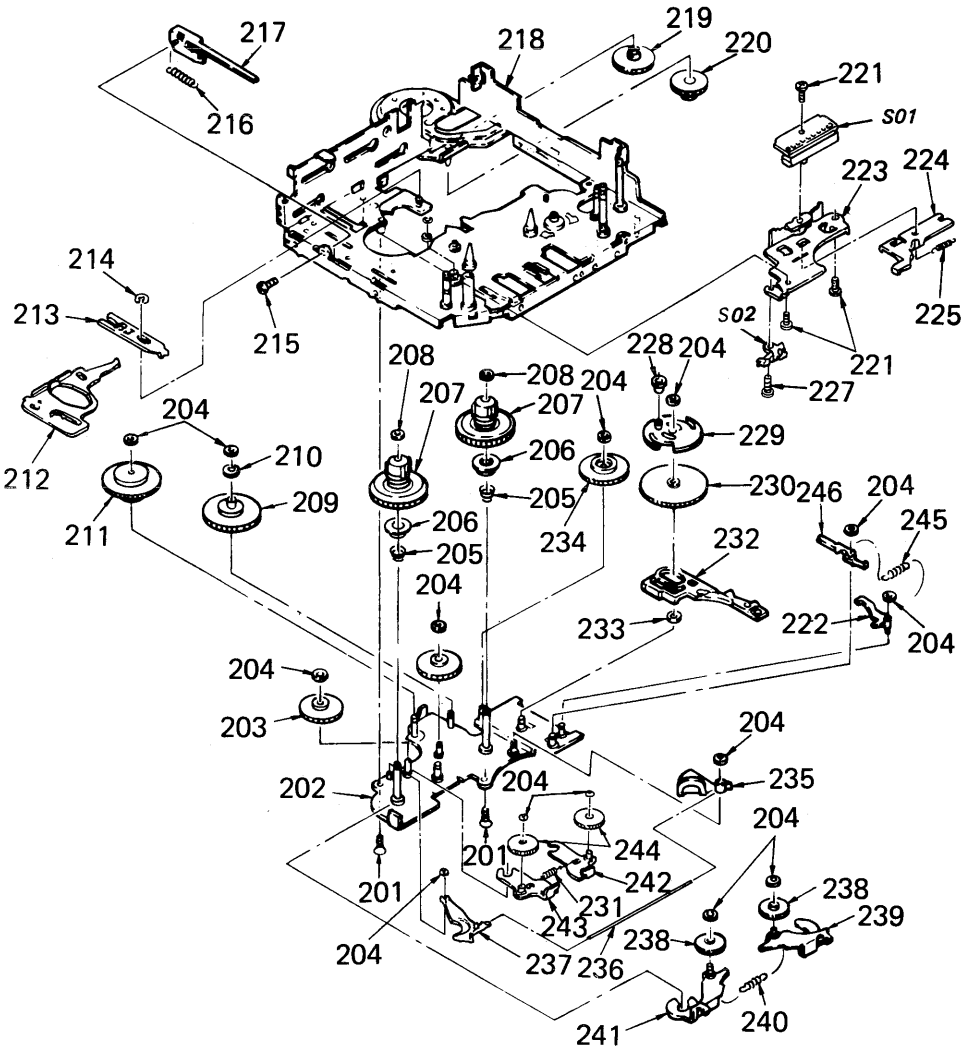
6-4.



No.	Part No.	Description	Remarks
151	3-390-676-01	PLATE, F.R SLIDE	
152	7-624-104-04	STOP, RING 2.0	
153	3-390-628-01	SPRING	
154	*3-390-627-01	PLATE, FUNCTION, F.R	
155	*3-390-629-01	PLATE, PULL	
156	3-318-323-01	RING, RETAING (3)	
157	3-390-605-01	ARM (R) ASSY, PINCH ROLLER	
158	*3-390-614-01	RIVETING ASSY, F.R BRACKET	
159	*3-390-656-01	SPRING	
160	*3-390-686-01	LEVER, REW	
161	7-628-253-90	SCREW +PS 2.6X4	
162	*3-390-687-01	LEVER, FF	
163	*3-390-655-01	PLATE, P.C	
164	3-701-437-11	WASHER (t=0.25)	
165	*3-390-674-01	SPRING	
166	*3-390-692-01	PLATE (M), MAIN	
167	7-624-102-04	STOP, RING 1.5 TYPE-E	
168	*3-390-602-01	RIVETING ASSY, SELECTION PLATE	
169	3-390-617-01	SPRING	
170	*3-390-666-01	ROLLER (M), H.P	
171	3-390-623-01	SCREW, COLOR	
172	3-390-665-01	SPRING (M)	
173	*3-390-662-01	RIVETING ASSY, HEAD PANEL (M)	
174	3-390-633-01	SPRING	
175	*3-390-632-01	PLATE, FUNCTION, P.R	
176	7-627-553-47	PRECISION SCREW +P 2X4 TYPE 3	

No.	Part No.	Description	Remarks
177	3-390-631-01	PLATE, SP, HEAD	
178	7-628-253-10	SCREW +PS 2X5	
179	*3-390-678-01	GUIDE, TAPE	
180	3-390-603-01	ARM (F) ASSY, PINCH ROLLER	
181	7-624-101-01	RING, RETAINING E-1.2	
182	3-701-437-01	WASHER (t=0.13)	
183	3-390-634-01	CAPSTAN, FL	
184	*3-390-673-01	PLATE, FUNCTION, T.S	
185	*3-390-675-01	SPRING	
186	3-390-619-01	SPRING	
187	*3-390-618-01	PLATE, LOCK, F.R	
188	3-701-439-01	WASHER (t=0.13)	
189	3-390-621-01	SPRING	
190	*3-390-620-01	PLATE, RELEASE, F.R	
191	7-685-783-01	SCREW +PTT 2X6 (S)	
192	*3-390-625-01	CORE	
193	*3-390-626-01	BRACKET, P.L	
194	7-685-780-09	SCREW +PTT 2X3 (S)	
195	3-390-622-01	PULLEY, MIDWAY	
196	3-390-710-01	HEAD (FPC)	
HP01	1-543-352-21	HEAD, MAGNETIC	
PM1	3-390-624-01	COIL ASSY, T	
S03	1-571-160-11	SWITCH, SLIDE	

6-5.



No.	Part No.	Description	Remarks
201	7-627-452-98	SCREW, PRECISION +K 2X3.5	
202	*3-390-606-01	RIVETING ASSY, MG PLATE	
203	*3-390-641-02	GEAR, F.T	
204	3-570-615-00	POLY-WASHER (DIA 1.2)	
205	*3-390-648-01	SPRING.	
206	*3-390-649-01	PIECE, E.D	
207	3-390-612-01	REEL SUB ASSY, TAKE-UP	
208	3-307-948-11	WASHER, NYLON	
209	*3-390-643-01	GEAR (LOWER), DEVICE	
210	*3-390-642-01	GEAR (UPPER), DEVICE	
211	3-390-611-01	CLUTCH ASSY, F.R	
212	*3-390-677-01	PLATE, FUNCTION, T.G	
213	*3-390-630-01	PLATE, PUSH, T.G	
214	7-624-104-04	STOP RING 2.0	
215	7-627-452-07	SCREW, PRECISION +K 2X2	
216	*3-390-668-01	SPRING	
217	*3-390-667-01	PLATE, TIMING	
218	*3-390-672-01	RIVETING ASSY, CHASSIS	
219	3-390-741-01	GEAR (A), MIDWAY	
220	3-390-616-01	GEAR, MAIN	
221	7-685-780-09	SCREW +PTT 2X3 (S)	
222	*3-390-684-01	ARM, TRIGGER	
223	*3-390-693-01	BRACKET, P.S (M)	
224	*3-390-652-01	PLATE, FUNCTION, SWITCH	

No.	Part No.	Description	Remarks
225	3-390-664-01	SPRING (M)	
227	7-627-852-48	PRECISION SCREW +P1.7X3.5 TYPE3	
228	*3-390-650-01	COLLAR, REVERSE GEAR	
229	*3-390-682-01	GEAR, REVERSE	
230	*3-390-646-01	GEAR, T.S FUNCTION	
231	3-390-636-01	SPRING (A)	
232	*3-390-681-01	PLATE, E.S	
233	3-701-439-01	WASHER (t=0.13)	
234	*3-390-644-01	GEAR, D.T	
235	*3-390-679-01	PLATE (F), E.D	
236	*3-390-638-01	BAR, E.S PUSH	
237	*3-390-680-01	PLATE (R), E.D	
238	*3-390-640-01	GEAR, T	
239	*3-390-609-01	RIVETING ASSY, TG PLATE (F)	
240	*3-390-639-01	SPRING	
241	*3-390-610-01	RIVETING ASSY, TG PLATE (R)	
242	*3-390-607-01	RIVETING ASSY, FG PLATE	
243	*3-390-608-01	RIVETING ASSY, RG PLATE	
244	3-390-637-01	GEAR, F	
245	*3-390-647-01	SPRING	
246	*3-390-683-01	ARM, STOP	
S01	3-390-661-01	BASE (M) ASSY, P (TAPE/RADIO)	
S02	1-570-697-11	SWITCH, LEAF (MUTING)	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

Ref.No.	Part No.	Description			
901	*A-3260-802-A	MOUNTED PCB, MAIN			
902	*A-3270-506-A	MOUNTED PCB, POWER			
903	1-808-370-11	LISPLAY PANEL, LIQUID CRYSTAL			
904	*1-627-041-11	PC BOARD, VOLUME			
905	*1-627-042-11	PC BOARD, TONE			
906	*1-629-216-11	PC BOARD, DK CONTROL			
907	*1-626-056-11	PC BOARD, CONTROL			
908	*1-629-217-11	PC BOARD, FILTER			
BT001	1-528-225-11	BATTERY, LITHIUM (CR2032)			
C001	1-131-345-00	TANTALUM	0.47MF	10%	16V
C002	1-131-419-00	TANTALUM	2.2MF	10%	10V
C003	1-161-055-00	CERAMIC	0.022MF	10%	25V
C004	1-161-051-00	CERAMIC	0.01MF	10%	25V
C006	1-102-959-00	CERAMIC	22PF	5%	50V
C007	1-102-959-00	CERAMIC	22PF	5%	50V
C008	1-161-021-11	CERAMIC	0.047MF	10%	25V
C021	1-126-157-11	ELECT	10MF	20%	16V
C022	1-126-157-11	ELECT	10MF	20%	16V
C023	1-124-465-00	ELECT	0.47MF	20%	50V
C025	1-126-157-11	ELECT	10MF	20%	16V
C031	1-126-176-11	ELECT	220MF	20%	10V
C032	1-126-176-11	ELECT	220MF	20%	10V
C033	1-126-103-11	ELECT	470MF	20%	16V
C034	1-126-176-11	ELECT	220MF	20%	10V
C035	1-126-176-11	ELECT	220MF	20%	10V
C036	1-124-446-11	ELECT	47MF	20%	10V
C037	1-161-772-11	CERAMIC	0.1MF	10%	25V
C038	1-126-094-11	ELECT	4.7MF	20%	16V
C039	1-124-477-11	ELECT	47MF	20%	16V
C040	1-161-021-11	CERAMIC	0.047MF	10%	25V
C041	1-126-101-11	ELECT	100MF	20%	16V
C042	1-124-477-11	ELECT	47MF	20%	16V
C044	1-161-051-00	CERAMIC	0.01MF	10%	25V
C045	1-161-772-11	CERAMIC	0.1MF	10%	25V
C046	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C047	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C048	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C049	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C050	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C150	1-102-959-00	CERAMIC	22PF	5%	50V
C151	1-161-055-00	CERAMIC	0.022MF	10%	25V
C152	1-161-055-00	CERAMIC	0.022MF	10%	25V
C153	1-161-055-00	CERAMIC	0.022MF	10%	25V
C154	1-161-055-00	CERAMIC	0.022MF	10%	25V
C155	1-124-255-00	ELECT	1MF	20%	50V
C156	1-126-245-00	ELECT	4.7MF	20%	25V
C157	1-102-936-00	CERAMIC	3PF	0.25PF	50V
C158	1-161-055-00	CERAMIC	0.022MF	10%	25V
C159	1-161-021-11	CERAMIC	0.047MF	10%	25V
C160	1-161-055-00	CERAMIC	0.022MF	10%	25V
C161	1-161-055-00	CERAMIC	0.022MF	10%	25V
C162	1-102-963-00	CERAMIC	33PF	5%	50V
C163	1-161-051-00	CERAMIC	0.01MF	10%	25V
C164	1-161-055-00	CERAMIC	0.022MF	10%	25V
C165	1-161-055-00	CERAMIC	0.022MF	10%	25V
C167	1-102-110-00	CERAMIC	220PF	10%	50V
C168	1-161-055-00	CERAMIC	0.022MF	10%	25V
C200	1-124-255-00	ELECT	1MF	20%	50V
C201	1-101-888-00	CERAMIC	68PF	5%	50V
C202	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C203	1-102-116-00	CERAMIC	680PF	10%	50V
C204	1-102-116-00	CERAMIC	680PF	10%	50V
C205	1-161-049-00	CERAMIC	0.0068MF	10%	25V
C206	1-102-114-00	CERAMIC	470PF	10%	50V
C207	1-102-114-00	CERAMIC	470PF	10%	50V
C208	1-102-114-00	CERAMIC	470PF	10%	50V
C209	1-102-114-00	CERAMIC	470PF	10%	50V
C210	1-102-106-00	CERAMIC	100PF	10%	50V
C211	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C212	1-126-153-11	ELECT	22MF	20%	6.3V
C213	1-161-051-00	CERAMIC	0.01MF	10%	25V
C214	1-161-051-00	CERAMIC	0.01MF	10%	25V
C250	1-161-041-00	CERAMIC	0.0015MF	10%	25V
C251	1-126-176-11	ELECT	220MF	20%	10V
C252	1-124-255-00	ELECT	1MF	20%	50V
C253	1-126-157-11	ELECT	10MF	20%	16V
C254	1-161-050-00	CERAMIC	0.0082MF	10%	25V
C255	1-161-021-11	CERAMIC	0.047MF	10%	25V
C256	1-126-157-11	ELECT	10MF	20%	16V
C257	1-124-255-00	ELECT	1MF	20%	50V
C258	1-126-258-00	ELECT	3.3MF	20%	50V
C259	1-130-471-00	FILM	0.001MF	5%	50V
C270	1-161-055-00	CERAMIC	0.022MF	10%	25V
C271	1-124-255-00	ELECT	1MF	20%	50V
C280	1-161-055-00	CERAMIC	0.022MF	10%	25V
C281	1-124-255-00	ELECT	1MF	20%	50V
C300	1-161-021-11	CERAMIC	0.047MF	10%	25V
C301	1-161-021-11	CERAMIC	0.047MF	10%	25V
C302	1-102-803-00	CERAMIC	27PF	5%	50V
C303	1-136-368-11	FILM	560PF	5%	50V

SEE ADDITIONAL INFORMATION

Ref.No.	Part No.	Description			
C304	1-126-153-11	ELECT	22MF	20%	6.3V
C305	1-161-021-11	CERAMIC	0.047MF	10%	25V
C306	1-161-021-11	CERAMIC	0.047MF	10%	25V
C307	1-161-021-11	CERAMIC	0.047MF	10%	25V
C308	1-124-446-11	ELECT	47MF	20%	10V
C309	1-126-162-11	ELECT	3 3MF	20%	25V
C310	1-161-021-11	CERAMIC	0.047MF	10%	25V
C311	1-161-021-11	CERAMIC	0.047MF	10%	25V
C312	1-124-255-00	ELECT	1MF	20%	50V
C313	1-124-465-00	ELECT	0.47MF	20%	50V
C314	1-161-021-11	CERAMIC	0.047MF	10%	25V
C315	1-161-051-00	CERAMIC	0.01MF	10%	25V
C316	1-161-021-11	CERAMIC	0.047MF	10%	25V
C317	1-161-021-11	CERAMIC	0.047MF	10%	25V
C319	1-124-443-00	ELECT	100MF	20%	10V
C320	1-102-963-00	CERAMIC	33PF	5%	50V
C350	1-126-101-11	ELECT	100MF	20%	16V
C351	1-126-245-00	ELECT	4.7MF	20%	25V
C352	1-126-101-11	ELECT	100MF	20%	16V
C353	1-126-258-00	ELECT	3.3MF	20%	50V
C354	1-126-157-11	ELECT	10MF	20%	16V
C355	1-124-463-00	ELECT	0.1MF	20%	50V
C356	1-126-157-11	ELECT	10MF	20%	16V
C357	1-124-234-00	ELECT	22MF	20%	10V
C358	1-126-157-11	ELECT	10MF	20%	16V
C371	1-161-039-00	CERAMIC	0.001MF	10%	25V
C372	1-124-234-00	ELECT	22MF	20%	10V
C373	1-161-051-00	CERAMIC	0.01MF	10%	25V
C374	1-124-257-00	ELECT	2.2MF	20%	50V
C381	1-161-039-00	CERAMIC	0.001MF	10%	25V
C382	1-124-234-00	ELECT	22MF	20%	10V
C383	1-161-051-00	CERAMIC	0.01MF	10%	25V
C384	1-124-257-00	ELECT	2.2MF	20%	50V
C400	1-126-157-11	ELECT	10MF	20%	16V
C401	1-131-415-00	TANTALUM	0.68MF	10%	16V
C402	1-131-415-00	TANTALUM	0.68MF	10%	16V
C403	1-124-255-00	ELECT	1MF	20%	50V
C404	1-124-443-00	ELECT	100MF	20%	10V
C405	1-124-443-00	ELECT	100MF	20%	10V
C410	1-124-255-00	ELECT	1MF	20%	50V
C411	1-126-094-11	ELECT	4.7MF	20%	16V
C420	1-124-255-00	ELECT	1MF	20%	50V
C421	1-126-094-11	ELECT	4.7MF	20%	16V
C450	1-126-157-11	ELECT	10MF	20%	16V
C451	1-124-446-11	ELECT	47MF	20%	10V
C452	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C460	1-124-255-00	ELECT	1MF	20%	50V
C461	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C462	1-161-057-00	CERAMIC	0.033MF	10%	25V
C463	1-161-055-00	CERAMIC	0.022MF	10%	25V
C464	1-124-464-11	ELECT	0.22MF	20%	50V
C465	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C466	1-124-463-00	ELECT	0.1MF	20%	50V
C467	1-124-257-00	ELECT	2.2MF	20%	35V
C468	1-126-233-00	ELECT	10MF	20%	16V
C469	1-124-257-00	ELECT	2.2MF	20%	35V
C470	1-102-106-11	CERAMIC	100PF	10%	50V

Ref.No.	Part No.	Description			
C471	1-124-257-00	ELECT	2.2MF	20%	35V
C472	1-124-255-00	ELECT	1MF	20%	50V
C473	1-102-120-00	CERAMIC	0.0018MF	10%	50V
C474	1-124-255-00	ELECT	1MF	20%	50V
C475	1-102-106-11	CERAMIC	100PF	10%	50V
C476	1-102-973-00	CERAMIC	100PF	5%	50V
C477	1-161-039-00	CERAMIC	0.001MF	10%	25V
C478	1-161-039-00	CERAMIC	0.001MF	10%	25V
C480	1-124-255-00	ELECT	1MF	20%	50V
C481	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C482	1-161-057-00	CERAMIC	0.033MF	10%	25V
C483	1-161-055-00	CERAMIC	0.022MF	10%	25V
C484	1-124-464-11	ELECT	0.22MF	20%	50V
C485	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C486	1-124-463-00	ELECT	0.1MF	20%	50V
C487	1-124-257-00	ELECT	2.2MF	20%	35V
C488	1-126-233-00	ELECT	10MF	20%	16V
C489	1-124-257-00	ELECT	2.2MF	20%	35V
C490	1-102-106-11	CERAMIC	100PF	10%	50V
C491	1-124-257-00	ELECT	2.2MF	20%	35V
C492	1-124-255-00	ELECT	1MF	20%	50V
C493	1-102-120-00	CERAMIC	0.0018MF	10%	50V
C494	1-124-255-00	ELECT	1MF	20%	50V
C495	1-102-106-00	CERAMIC	100PF	10%	50V
C496	1-102-973-00	CERAMIC	100PF	5%	50V
C497	1-161-039-00	CERAMIC	0.001MF	10%	25V
C498	1-161-039-00	CERAMIC	0.001MF	10%	25V
C501	1-102-492-21	CERAMIC	56PF	5%	50V
C502	1-131-375-00	TANTALUM	4.7MF	10%	10V
C503	1-130-477-00	MYLAR	0.0033MF	5%	50V
C504	1-130-491-00	MYLAR	0.047MF	5%	50V
C505	1-130-488-00	MYLAR	0.027MF	5%	50V
C506	1-130-494-11	FILM	0.082MF	5%	50V
C507	1-130-497-00	MYLAR	0.15MF	5%	50V
C508	1-161-772-11	CERAMIC	0.1MF	10%	25V
C509	1-130-493-00	MYLAR	0.068MF	5%	50V
C510	1-130-493-00	MYLAR	0.068MF	5%	50V
C511	1-126-157-11	ELECT	10MF	20%	16V
C512	1-130-497-00	MYLAR	0.15MF	5%	50V
C515	1-102-106-00	CERAMIC	100PF	10%	50V
C523	1-161-772-11	CERAMIC	0.1MF	10%	25V
C524	1-161-772-11	CERAMIC	0.1MF	10%	25V
C525	1-102-106-00	CERAMIC	100PF	10%	50V
C551	1-124-255-00	ELECT	1MF	20%	50V
C552	1-124-446-11	ELECT	47MF	20%	10V
C553	1-131-453-11	TANTALUM	0.22MF	10%	16V
C554	1-126-094-11	ELECT	4.7MF	20%	16V
C555	1-124-443-00	ELECT	100MF	20%	10V
C556	1-124-446-11	ELECT	47MF	20%	10V
C557	1-124-255-00	ELECT	1MF	20%	50V
C570	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C580	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C600	1-123-566-00	ELECT	2200MF	20%	16V
C601	1-126-176-11	ELECT	220MF	20%	10V
C602	1-161-021-00	CERAMIC	0.047MF	10%	25V
C610	1-124-257-00	ELECT	2.2MF	20%	50V
C611	1-161-039-00	CERAMIC	0.001MF	10%	25V

SEE ADDITIONAL INFORMATION

Ref.No.	Part No.	Description			
C612	1-124-234-00	ELECT	22MF	20%	10V
C613	1-161-772-11	CERAMIC	0.1MF	10%	25V
C614	1-161-772-11	CERAMIC	0.1MF	10%	25V
C620	1-124-257-00	ELECT	2.2MF	20%	50V
C621	1-161-039-00	CERAMIC	0.001MF	10%	25V
C622	1-124-234-00	ELECT	22MF	20%	10V
CF150	1-567-389-11	FILTER, CERAMIC (10.7MHz)			
CF300	1-577-103-11	VIBRATOR, CERAMIC (459kHz)			
CF301	1-577-100-11	FILTER, CERAMIC (459kHz)			
CNJ901	1-559-385-11	CORD (WITH CONNECTOR) (SOCKET)			
CNP901	1-574-105-11	CORD (WHTH CONNECTOR)			
D001	8-719-901-33	DIODE 1SS133			
D002	8-719-901-33	DIODE 1SS133			
D003	8-719-901-33	DIODE 1SS133			
D004	8-719-901-33	DIODE 1SS133			
D005	8-719-901-33	DIODE 1SS133			
D006	8-719-923-48	DIODE 1S2348H			
D007	8-719-901-33	DIODE 1SS133			
D008	8-719-901-33	DIODE 1SS133			
D009	8-719-901-33	DIODE 1SS133			
D010	8-719-901-33	DIODE 1SS133			
D011	8-719-901-33	DIODE 1SS133			
D022	8-719-901-33	DIODE 1SS133			
D023	8-719-901-33	DIODE 1SS133			
D024	8-719-901-33	DIODE 1SS133			
D025	8-719-901-33	DIODE 1SS133			
D031	8-719-100-57	DIODE RD10EB2			
D032	8-719-910-68	DIODE HZ6C2L			
D033	8-719-100-57	DIODE RD10EB2			
D034	8-719-100-57	DIODE RD10EB2			
D035	8-719-200-02	DIODE 10E-2			
D036	8-719-901-33	DIODE 1SS133			
D037	8-719-104-10	DIODE 1SS99			
D038	8-719-100-30	DIODE RD5.1EB2			
D039	8-719-200-02	DIODE 10E-2			
D050	8-719-920-80	DIODE GL-1HY102			
D051	8-719-920-80	DIODE GL-1HY102			
D052	8-719-920-80	DIODE GL-1HY102			
D053	8-719-920-80	DIODE GL-1HY102			
D054	8-719-920-80	DIODE GL-1HY102			
D055	8-719-920-80	DIODE GL-1HY102			
D056	8-719-920-80	DIODE GL-1HY102			
D057	8-719-920-80	DIODE GL-1HY102			
D058	8-719-920-80	DIODE GL-1HY102			
D059	8-719-920-80	DIODE GL-1HY102			
D060	8-719-920-80	DIODE GL-1HY102			
D061	8-719-920-80	DIODE GL-1HY102			
D062	8-719-920-80	DIODE GL-1HY102			
D063	8-719-920-80	DIODE GL-1HY102			
D064	8-719-920-80	DIODE GL-1HY102			
D065	8-719-920-80	DIODE GL-1HY102			
D066	8-719-920-80	DIODE GL-1HY102			
D067	8-719-920-80	DIODE GL-1HY102			
D068	8-719-920-80	DIODE GL-1HY102			
D069	8-719-920-80	DIODE GL-1HY102			
D070	8-719-920-80	DIODE GL-1HY102			
D250	8-719-901-33	DIODE 1SS133			

Ref.No.	Part No.	Description
D300	8-719-903-24	DIODE SVC321SP-A2
D301	8-719-903-24	DIODE SVC321SP-A2
D302	8-719-903-24	DIODE SVC321SP-A2
D303	8-719-100-74	DIODE RD16EB2
D304	8-719-100-74	DIODE RD16EB2
D310	8-719-901-33	DIODE 1SS133
D320	8-719-901-33	DIODE 1SS133
D350	8-719-200-02	DIODE 10E-2
D450	8-719-100-30	DIODE RD5.1EB2
D551	8-719-901-33	DIODE 1SS133
D600	8-719-945-59	DIODE DSA3A4
D601	8-719-200-02	DIODE 10E-2
HP01	1-543-352-21	HEAD, MAGNETIC
IC001	1-808-390-11	IC UPD1708AG-023-00
IC150	8-759-811-40	IC LA1140
IC200	8-759-800-17	IC LA2110
IC250	8-759-833-70	IC LA3370
IC300	1-806-985-11	IC LA1135
IC350	1-808-383-11	IC M51524L
IC400	8-752-033-99	IC CXA1163P
IC450	8-759-100-96	IC UPC4558G2
IC500	8-759-971-69	IC TDA1579
IC550	1-807-410-11	IC LA2211
IC600	8-759-230-25	IC TA8210H
J101	*1-563-961-11	SOCKET, CONNECTOR
L030	*1-422-618-11	COIL, AIR CORE
L031	1-410-324-11	INDUCTOR 4.7UH
L032	1-410-324-11	INDUCTOR 4.7UH
L150	1-410-332-11	INDUCTOR 47UH
L151	1-410-312-11	INDUCTOR 0.22UH
L152	1-410-332-11	INDUCTOR 47UH
L300	1-410-324-11	INDUCTOR 4.7UH
M01	3-390-601-01	MOTOR ASSY
PL001	1-518-635-11	LAMP, PILOT (5V 60mA)
PL002	1-518-635-11	LAMP, PILOT (5V 60mA)
PM1	3-390-624-01	COIL ASSY (SOLENOID)
Q001	8-729-902-11	TRANSISTOR 2SC2021
Q002	8-729-902-11	TRANSISTOR 2SC2021
Q003	8-729-902-11	TRANSISTOR 2SC2021
Q004	8-729-993-72	TRANSISTOR 2SA937
Q005	8-729-993-72	TRANSISTOR 2SA937
Q006	8-729-993-72	TRANSISTOR 2SA937
Q007	8-729-806-30	TRANSISTOR 2SC4048
Q008	8-729-806-30	TRANSISTOR 2SC4048
Q009	8-729-993-72	TRANSISTOR 2SA937
Q010	8-729-993-72	TRANSISTOR 2SA937
Q021	8-729-806-30	TRANSISTOR 2SC4048
Q022	8-729-900-39	TRANSISTOR DTA124EF
Q023	8-729-900-88	TRANSISTOR DTC144WF
Q025	8-729-900-39	TRANSISTOR DTA124EF
Q026	8-729-806-30	TRANSISTOR 2SC4048
Q027	8-729-902-11	TRANSISTOR 2SC2021
Q028	8-729-900-33	TRANSISTOR DTC144EF
Q031	8-729-186-23	TRANSISTOR 2SD862

SEE ADDITIONAL INFORMATION

Ref.No.	Part No.	Description
Q032	8-729-100-13	TRANSISTOR 2SC2001
Q033	8-729-807-11	TRANSISTOR 2SD1802
Q034	8-729-186-23	TRANSISTOR 2SD862
Q035	8-729-806-30	TRANSISTOR 2SC4048
Q036	8-729-902-11	TRANSISTOR 2SC2021
Q037	8-729-987-42	TRANSISTOR 2SA874
Q038	8-729-806-30	TRANSISTOR 2SC4048
Q039	8-729-807-11	TRANSISTOR 2SD1802
Q040	8-729-806-30	TRANSISTOR 2SC4048
Q041	8-729-993-72	TRANSISTOR 2SA937
Q042	8-729-206-29	TRANSISTOR RN1211
Q043	8-729-206-27	TRANSISTOR RN1209
Q044	8-729-993-72	TRANSISTOR 2SA937
Q045	8-729-902-11	TRANSISTOR 2SC2021
Q046	8-729-902-11	TRANSISTOR 2SC2021
Q150	8-729-806-30	TRANSISTOR 2SC4048
Q151	8-729-806-30	TRANSISTOR 2SC4048
Q250	8-729-806-32	TRANSISTOR 2SC3860
Q300	8-729-178-55	TRANSISTOR 2SC2785-E
Q301	8-729-178-55	TRANSISTOR 2SC2785-E
Q302	1-808-375-11	TRANSISTOR 2SK427
Q350	8-729-902-11	TRANSISTOR 2SC2021
Q351	8-729-186-23	TRANSISTOR 2SD862
Q352	8-729-806-30	TRANSISTOR 2SC4048
Q450	8-729-806-30	TRANSISTOR 2SC4048
Q451	8-729-807-11	TRANSISTOR 2SD1802
Q460	8-729-807-11	TRANSISTOR 2SD1802
Q461	8-729-900-46	TRANSISTOR DTC143TF
Q462	8-729-902-11	TRANSISTOR 2SC2021
Q480	8-729-807-11	TRANSISTOR 2SD1802
Q481	8-729-900-46	TRANSISTOR DTC143TF
Q482	8-729-902-11	TRANSISTOR 2SC2021
Q550	8-729-806-32	TRANSISTOR 2SC3860
Q551	8-729-902-11	TRANSISTOR 2SC2021
Q552	8-729-902-11	TRANSISTOR 2SC2021
Q610	8-729-807-11	TRANSISTOR 2SD1802
Q620	8-729-807-11	TRANSISTOR 2SD1802
R001	1-249-414-11	CARBON 560 5% 1/4W
R002	1-249-417-11	CARBON 1K 5% 1/4W
R003	1-249-417-11	CARBON 1K 5% 1/4W
R004	1-249-433-11	CARBON 22K 5% 1/4W
R005	1-249-433-11	CARBON 22K 5% 1/4W
R006	1-249-433-11	CARBON 22K 5% 1/4W
R007	1-249-433-11	CARBON 22K 5% 1/4W
R008	1-249-441-11	CARBON 100K 5% 1/4W
R009	1-249-441-11	CARBON 100K 5% 1/4W
R010	1-249-433-11	CARBON 22K 5% 1/4W
R011	1-249-433-11	CARBON 22K 5% 1/4W
R012	1-249-441-11	CARBON 100K 5% 1/4W
R013	1-249-433-11	CARBON 22K 5% 1/4W
R014	1-249-433-11	CARBON 22K 5% 1/4W
R015	1-249-441-11	CARBON 100K 5% 1/4W
R016	1-249-433-11	CARBON 22K 5% 1/4W
R017	1-249-441-11	CARBON 100K 5% 1/4W
R018	1-249-441-11	CARBON 100K 5% 1/4W
R019	1-249-425-11	CARBON 4.7K 5% 1/4W
R020	1-249-425-11	CARBON 4.7K 5% 1/4W
R021	1-249-422-11	CARBON 2.7K 5% 1/4W
R022	1-249-437-11	CARBON 47K 5% 1/4W

Ref.No.	Part No.	Description
R023	1-249-417-11	CARBON 1K 5% 1/4W
R024	1-249-437-11	CARBON 47K 5% 1/4W
R027	1-249-417-11	CARBON 1K 5% 1/4W
R028	1-249-417-11	CARBON 1K 5% 1/4W
R029	1-247-887-00	CARBON 220K 5% 1/4W
R030	1-247-725-11	CARBON 10K 1% 1/4W
R031	1-249-413-11	CARBON 470 5% 1/4W
R032	1-249-430-11	CARBON 12K 5% 1/4W
R033	1-249-417-11	CARBON 1K 5% 1/4W
R034	1-249-421-11	CARBON 2.2K 5% 1/4W
R035	1-249-417-11	CARBON 1K 5% 1/4W
R036	1-249-385-11	CARBON 2.2 5% 1/4W
R037	1-249-416-11	CARBON 820 5% 1/4W
R038	1-247-721-11	CARBON 4.7K 1% 1/4W
R039	1-249-417-11	CARBON 1K 5% 1/4W
R040	1-249-413-11	CARBON 470 5% 1/4W
R041	1-249-419-11	CARBON 1.5K 5% 1/4W
R042	1-249-433-11	CARBON 22K 5% 1/4W
R043	1-249-441-11	CARBON 100K 5% 1/4W
R044	1-249-393-11	CARBON 10 5% 1/4W
R045	1-249-393-11	CARBON 10 5% 1/4W
R046	1-249-437-11	CARBON 47K 5% 1/4W
R047	1-249-429-11	CARBON 10K 5% 1/4W
R048	1-249-429-11	CARBON 10K 5% 1/4W
R049	1-249-417-11	CARBON 1K 5% 1/4W
R050(A)	1-249-411-11	CARBON 330 5% 1/4W
R050(B)	1-249-437-11	CARBON 47K 5% 1/4W
R051	1-249-411-11	CARBON 330 5% 1/4W
R052	1-249-411-11	CARBON 330 5% 1/4W
R053	1-249-411-11	CARBON 330 5% 1/4W
R054	1-249-411-11	CARBON 330 5% 1/4W
R055	1-249-411-11	CARBON 330 5% 1/4W
R056	1-249-411-11	CARBON 330 5% 1/4W
R057	1-247-713-11	CARBON 1K 1% 1/4W
R058	1-247-713-11	CARBON 1K 1% 1/4W
R059	1-247-713-11	CARBON 1K 1% 1/4W
R150	1-247-897-11	CARBON 560K 5% 1/4W
R151	1-249-411-11	CARBON 330 5% 1/4W
R152	1-249-439-11	CARBON 68K 5% 1/4W
R153	1-249-433-11	CARBON 22K 5% 1/4W
R154	1-249-431-11	CARBON 15K 5% 1/4W
R155	1-249-437-11	CARBON 47K 5% 1/4W
R156	1-249-428-11	CARBON 8.2K 5% 1/4W
R157	1-249-437-11	CARBON 47K 5% 1/4W
R158	1-249-437-11	CARBON 47K 5% 1/4W
R159	1-249-417-11	CARBON 1K 5% 1/4W
R200	1-249-425-11	CARBON 4.7K 5% 1/4W
R201	1-249-425-11	CARBON 4.7K 5% 1/4W
R202	1-249-425-11	CARBON 4.7K 5% 1/4W
R203	1-249-425-11	CARBON 4.7K 5% 1/4W
R204	1-249-424-11	CARBON 3.9K 5% 1/4W
R205	1-249-421-11	CARBON 2.2K 5% 1/4W
R206	1-249-421-11	CARBON 2.2K 5% 1/4W
R207	1-249-422-11	CARBON 2.7K 5% 1/4W
R208	1-249-441-11	CARBON 100K 5% 1/4W
R209	1-249-433-11	CARBON 22K 5% 1/4W
R210	1-249-427-11	CARBON 6.8K 5% 1/4W

Ref.No.	Part No.	Description			
R211	1-249-433-11	CARBON	22K	5%	1/4W
R212	1-249-408-11	CARBON	180	5%	1/4W
R250	1-249-417-11	CARBON	1K	5%	1/4W
R251	1-249-427-11	CARBON	6.8K	5%	1/4W
R252	1-249-433-11	CARBON	22K	5%	1/4W
R254	1-249-429-11	CARBON	10K	5%	1/4W
R255	1-249-417-11	CARBON	1K	5%	1/4W
R256	1-249-433-11	CARBON	22K	5%	1/4W
R257	1-249-441-11	CARBON	100K	5%	1/4W
R258	1-249-436-11	CARBON	39K	5%	1/4W
R270	1-249-423-11	CARBON	3.3K	5%	1/4W
R271	1-249-423-11	CARBON	3.3K	5%	1/4W
R280	1-249-423-11	CARBON	3.3K	5%	1/4W
R281	1-249-423-11	CARBON	3.3K	5%	1/4W
R300	1-249-397-11	CARBON	22	5%	1/4W
R301	1-249-405-11	CARBON	100	5%	1/4W
R302	1-249-441-11	CARBON	100K	5%	1/4W
R303	1-249-441-11	CARBON	100K	5%	1/4W
R304	1-249-441-11	CARBON	100K	5%	1/4W
R305	1-247-887-00	CARBON	220K	5%	1/4W
R306	1-249-429-11	CARBON	10K	5%	1/4W
R307	1-249-429-11	CARBON	10K	5%	1/4W
R308	1-249-429-11	CARBON	10K	5%	1/4W
R309	1-249-422-11	CARBON	2.7K	5%	1/4W
R310	1-249-405-11	CARBON	100	5%	1/4W
R311	1-249-404-00	CARBON	82	5%	1/4W
R312	1-249-417-11	CARBON	1K	5%	1/4W
R313	1-247-699-11	CARBON	82	1%	1/4W
R314	1-249-437-11	CARBON	47K	5%	1/4W
R315	1-249-465-11	CARBON	47K	1%	1/4W
R316	1-249-417-11	CARBON	1K	5%	1/4W
R350	1-249-405-11	CARBON	100	5%	1/4W
R351	1-249-431-11	CARBON	15K	5%	1/4W
R352	1-247-891-00	CARBON	330K	5%	1/4W
R353	1-249-433-11	CARBON	22K	5%	1/4W
R354	1-249-417-11	CARBON	1K	5%	1/4W
R355	1-249-441-11	CARBON	100K	5%	1/4W
R356	1-249-417-11	CARBON	1K	5%	1/4W
R357	1-249-405-11	CARBON	100	5%	1/4W
R358	1-247-896-11	CARBON	510K	5%	1/4W
R359	1-249-414-11	CARBON	560	5%	1/4W
R360	1-249-405-11	CARBON	100	5%	1/4W
R371	1-249-408-11	CARBON	180	5%	1/4W
R372	1-247-891-00	CARBON	330K	5%	1/4W
R373	1-249-430-11	CARBON	12K	5%	1/4W
R374	1-249-432-11	CARBON	18K	5%	1/4W
R381	1-249-408-11	CARBON	180	5%	1/4W
R382	1-247-891-00	CARBON	330K	5%	1/4W
R383	1-249-430-11	CARBON	12K	5%	1/4W
R384	1-249-432-11	CARBON	18K	5%	1/4W
R400	1-247-725-11	CARBON	10K	1%	1/4W
R401	1-249-429-11	CARBON	10K	5%	1/4W
R402	1-247-870-11	CARBON	43K	5%	1/4W
R403	1-249-429-11	CARBON	10K	5%	1/4W
R404	1-249-429-11	CARBON	10K	5%	1/4W
R405	1-249-393-11	CARBON	10	5%	1/4W
R411	1-249-428-11	CARBON	8.2K	5%	1/4W

Ref.No.	Part No.	Description			
R421	1-249-428-11	CARBON	8.2K	5%	1/4W
R450	1-249-429-11	CARBON	10K	5%	1/4W
R451	1-249-429-11	CARBON	10K	5%	1/4W
R452	1-249-417-11	CARBON	1K	5%	1/4W
R453	1-249-099-00	CARBON	47	5%	1/4W
R454	1-249-429-11	CARBON	10K	5%	1/4W
R455	1-249-425-11	CARBON	4.7K	5%	1/4W
R456	1-249-441-11	CARBON	100K	5%	1/4W
R461	1-249-429-11	CARBON	10K	5%	1/4W
R462	1-249-420-11	CARBON	1.8K	5%	1/4W
R463	1-249-420-11	CARBON	1.8K	5%	1/4W
R464	1-249-421-11	CARBON	2.2K	5%	1/4W
R465	1-249-441-11	CARBON	100K	5%	1/4W
R466	1-249-417-11	CARBON	1K	5%	1/4W
R467	1-249-143-00	CARBON	3.3K	5%	1/4W
R468	1-247-713-11	CARBON	1K	1%	1/4W
R469	1-249-417-11	CARBON	1K	5%	1/4W
R470	1-246-539-00	CARBON	560K	1%	1/4W
R471	1-249-405-11	CARBON	100	5%	1/4W
R472	1-247-141-00	CARBON	2.7K	5%	1/4W
R481	1-249-429-11	CARBON	10K	5%	1/4W
R482	1-249-420-11	CARBON	1.8K	5%	1/4W
R483	1-249-420-11	CARBON	1.8K	5%	1/4W
R484	1-249-421-11	CARBON	2.2K	5%	1/4W
R485	1-249-441-11	CARBON	100K	5%	1/4W
R486	1-249-417-11	CARBON	1K	5%	1/4W
R487	1-249-143-00	CARBON	3.3K	5%	1/4W
R488	1-247-713-11	CARBON	1K	1%	1/4W
R489	1-249-417-11	CARBON	1K	5%	1/4W
R490	1-246-539-00	CARBON	560K	1%	1/4W
R491	1-249-405-11	CARBON	100	5%	1/4W
R492	1-247-141-00	CARBON	2.7K	5%	1/4W
R501	1-249-163-00	CARBON	22K	5%	1/4W
R502	1-249-441-11	CARBON	100K	5%	1/4W
R503	1-249-425-11	CARBON	4.7K	5%	1/4W
R504	1-249-439-11	CARBON	68K	5%	1/4W
R505	1-249-441-11	CARBON	100K	5%	1/4W
R506	1-247-899-11	CARBON	680K	5%	1/4W
R507	1-249-434-11	CARBON	27K	5%	1/4W
R508	1-249-437-11	CARBON	47K	5%	1/4W
R509	1-249-409-11	CARBON	220	5%	1/4W
R510	1-247-899-11	CARBON	680K	5%	1/4W
R511	1-247-887-00	CARBON	220K	5%	1/4W
R512	1-249-425-11	CARBON	4.7K	5%	1/4W
R551	1-247-897-11	CARBON	560K	5%	1/4W
R552	1-249-423-11	CARBON	3.3K	5%	1/4W
R553	1-249-417-11	CARBON	1K	5%	1/4W
R555	1-249-089-00	CARBON	18	5%	1/4W
R556	1-249-423-11	CARBON	3.3K	5%	1/4W
R557	1-249-420-11	CARBON	1.8K	5%	1/4W
R558	1-249-434-11	CARBON	27K	5%	1/4W
R560	1-249-429-11	CARBON	10K	5%	1/4W
R561	1-249-429-11	CARBON	10K	5%	1/4W
R562	1-249-423-11	CARBON	3.3K	5%	1/4W
R563	1-249-422-11	CARBON	2.7K	5%	1/4W
R564	1-249-422-11	CARBON	2.7K	5%	1/4W
R565	1-249-417-11	CARBON	1K	5%	1/4W

Ref.No.	Part No.	Description			
R566	1-249-429-11	CARBON	10K	5%	1/4W
R567	1-249-436-11	CARBON	39K	5%	1/4W
R568	1-249-417-11	CARBON	1K	5%	1/4W
R569	1-246-539-00	CARBON	560K	1%	1/4W
R570	1-247-105-00	CARBON	82	5%	1/4W
R600	1-249-429-11	CARBON	10K	5%	1/4W
R610	1-247-125-00	CARBON	560	5%	1/4W
R611	1-249-414-11	CARBON	560	5%	1/4W
R612	1-249-385-11	CARBON	2.2	5%	1/4W
R613	1-249-385-11	CARBON	2.2	5%	1/4W
R614	1-249-417-11	CARBON	1K	5%	1/4W
R620	1-247-125-00	CARBON	560	5%	1/4W
R621	1-249-414-11	CARBON	560	5%	1/4W
R622	1-249-385-11	CARBON	2.2	5%	1/4W
R623	1-249-385-11	CARBON	2.2	5%	1/4W
R624	1-249-417-11	CARBON	1K	5%	1/4W
S01	3-390-661-11	BASE (M) ASSY, P (TAPE/RADIO)			
S02	1-570-697-11	SWITCH, LEAF (MUTING)			
S03	1-571-160-11	SWITCH, SLIDE (FWD/REV)			
SW050	1-554-813-21	SWITCH, KEY BOARD (MAN +)			
SW051	1-554-813-21	SWITCH, KEY BOARD (MAN -)			
SW052	1-554-813-21	SWITCH, KEY BOARD (MONO)			
SW053	1-554-813-21	SWITCH, KEY BOARD (SDK)			
SW054	1-554-813-21	SWITCH, KEY BOARD (SEEK +)			
SW055	1-554-813-21	SWITCH, KEY BOARD (SEEK -)			
SW056	1-554-813-21	SWITCH, KEY BOARD (M.SCAN/A.MEM)			
SW057	1-554-813-21	SWITCH, KEY BOARD (1)			
SW058	1-554-813-21	SWITCH, KEY BOARD (2)			
SW059	1-554-813-21	SWITCH, KEY BOARD (3)			
SW060	1-554-813-21	SWITCH, KEY BOARD (4)			
SW061	1-554-813-21	SWITCH, KEY BOARD (5)			
SW062	1-554-813-21	SWITCH, KEY BOARD (6)			
SW063	1-554-813-21	SWITCH, KEY BOARD (BAND)			
SW064	1-571-608-11	SWITCH, PUSH (METAL)			
SW065	1-571-608-11	SWITCH, PUSH (□□)			
SW066	1-571-608-11	SWITCH, PUSH (AMS)			
SW451	1-554-222-00	SWITCH, SLIDE (PWR/PRE)			
T150	1-404-724-11	TRANSFORMER, IF			
T300	1-406-288-11	COIL (OSC)			
T301	1-426-363-11	TRANSFORMER, HIGH FREQUENCY			
T302	1-426-362-11	TRANSFORMER, HIGH FREQUENCY			
T303	1-404-796-11	TRANSFORMER, IF			
T304	1-404-795-11	TRANSFORMER, IF			
T501	1-424-036-11	COIL (FILTER)			

Ref.No.	Part No.	Description
TC300	1-141-276-00	CAP, TRIMMER
TC301	1-141-276-00	CAP, TRIMMER
TU001	1-463-858-11	FRONT END (FM)
VR150	1-238-188-11	RES, ADJ, CARBON 100K
VR250	1-238-187-11	RES, ADJ, CARBON 50K
VR251	1-237-784-11	RES, ADJ, CARBON 200K
VR252	1-237-785-11	RES, ADJ, CARBON 20K
VR300	1-237-784-11	RES, ADJ, CARBON 200K
VR410	1-238-188-11	RES, ADJ, CARBON 100K
VR420	1-238-188-11	RES, ADJ, CARBON 100K
VR450	1-238-173-11	RES, VAR, CARBON 50K/50K (TREBLE)
VR451	1-238-173-11	RES, VAR, CARBON 50K/50K (BASS)
VR452	1-238-174-11	RES, VAR (SW) 80X2/20KX2/50KX4
VR500	1-237-189-11	RES, ADJ, CARBON 500
VR550	1-237-786-11	RES, ADJ, CARBON 5K
VR551	1-230-326-11	RES, ADJ, CARBON 10K
XT001	1-567-713-11	VIBRATOR, CRYSTAL (4.5MHz)

ACCESSORY & PACKING MATERIAL

1-532-360-XX	FUSE (1A) (F902,F903)
1-532-422-00	FUSE (6.3A)(F901)
3-302-126-01	SCREW, TAPPING (DIA. 5X20)
3-310-655-01	SUPPORT (ND), FITTING
3-323-208-01	BUSHING, RUBBER
3-323-210-01	ADJUSTOR, STUD BOLT
*3-332-843-01	SCREW (B), STEP
3-336-617-01	BAG, PROTECTION
*3-340-613-01	SCREW (A), STEP
3-340-687-21	KNOB (HANDLE FITTING)
*3-345-912-11	CUSHION (LEFT & RIGHT)
*3-345-923-01	INDIVIDUAL CARTON
*3-764-869-11	INSTRUCTION, DBP CAUTION
3-764-984-11	MANUAL, INSTRUCTION
3-764-984-41	MANUAL, INSTRUCTION
3-769-935-11	MANUAL, INSTRUCTION
3-769-935-41	MANUAL, INSTRUCTION
7-621-255-20	SCREW +P 2X4
7-627-553-38	SCREW, PRECISION +P 2X3
7-682-578-04	SCREW +P 5X16
7-684-025-04	N 5, TYPE 2

XR-7052

SONY
SERVICE MANUAL

West Germany Model

Serial No.12701 and later

SUPPLEMENT-1

File this Supplement with the Service Manual.

Subject

1. CHANGED PARTS LIST (ELECTRICAL)

2. CIRCUIT CHANGE

- **PRINTED WIRING BOARD**
- **SCHEMATIC DIAGRAM**

1. CHANGED PARTS LIST

Ref. No.	Part No.	Description	Remarks
C473	1-102-120-00	CERAMIC 0.0018MF	changed
C476	1-161-039-00	CERAMIC 0.001MF	changed
C478	1-102-973-00	CERAMIC 100PF	changed
C493	1-102-120-00	CERAMIC 0.0018MF	changed
C496	1-161-039-00	CERAMIC 0.001MF	changed
C498	1-102-973-00	CERAMIC 100PF	changed
D021	8-719-901-33	DIODE 1SS133	added
R014	1-249-441-11	CARBON 100K ¼W	changed
R018	1-249-433-11	CARBON 22K ¼W	changed
R057	1-247-829-11	CARBON 820 ¼W	changed
R058	1-247-829-11	CARBON 820 ¼W	changed
R059	1-247-829-11	CARBON 820 ¼W	changed
R157		———	deleted
Q023	8-729-900-33	TRANSISTOR DTC144EF	changed
Q033	8-729-905-52	TRANSISTOR 2SD1055	changed
Q034	8-729-901-66	TRANSISTOR 2SD1225M	changed
Q039	8-729-905-52	TRANSISTOR 2SD1055	changed
Q451	8-729-901-66	TRANSISTOR 2SD1225M	changed
Q460	8-729-901-66	TRANSISTOR 2SD1225M	changed
Q480	8-729-901-66	TRANSISTOR 2SD1225M	changed
Q610	8-729-901-66	TRANSISTOR 2SD1225M	changed
Q620	8-729-901-66	TRANSISTOR 2SD1225M	changed

9-953-403-81

Sony Corporation
Audio Group

English
88K0207-1
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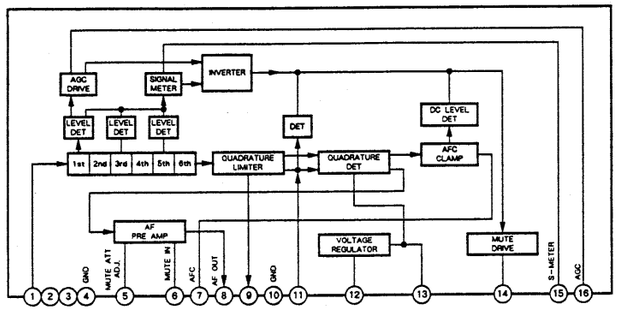
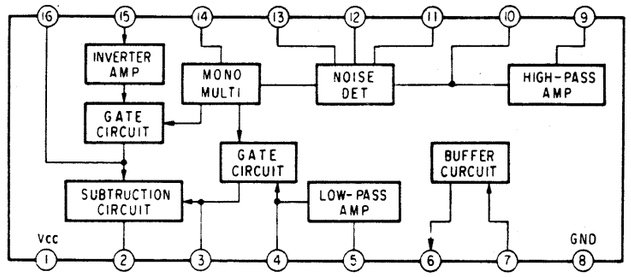
IC BLOCK DIAGRAM

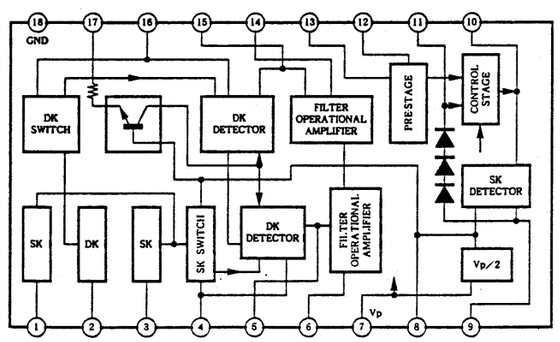
IC150 LA1140



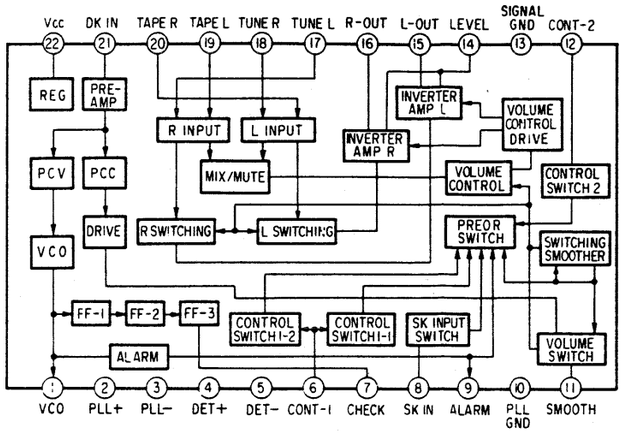
IC200 LA2110



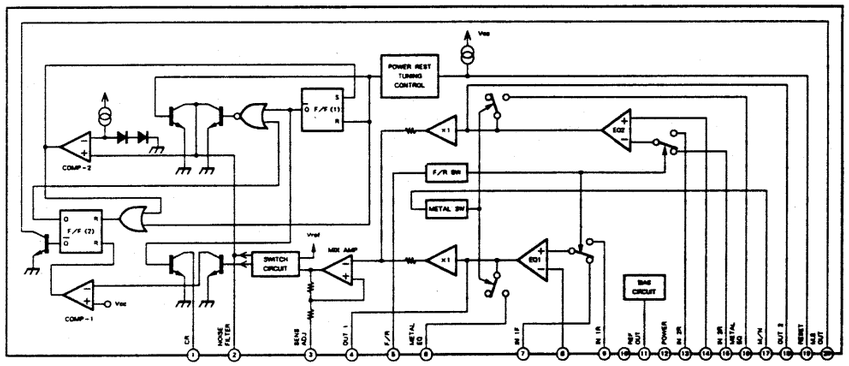
IC501 TDA1579



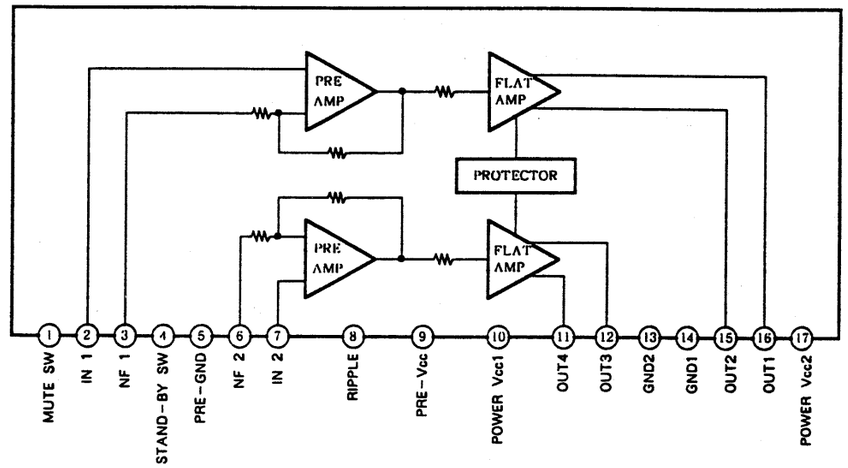
IC551 LA2211



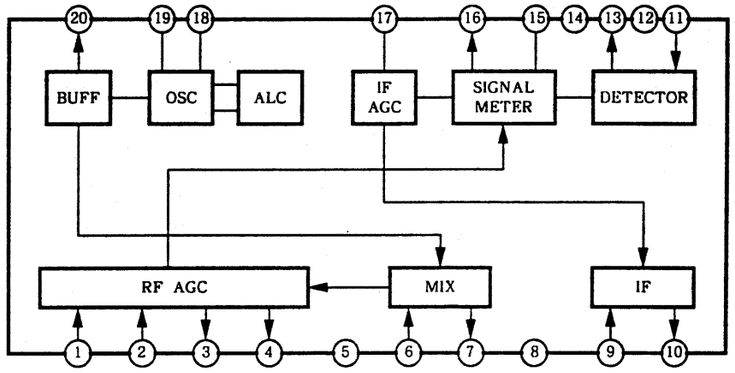
IC350 M51524L



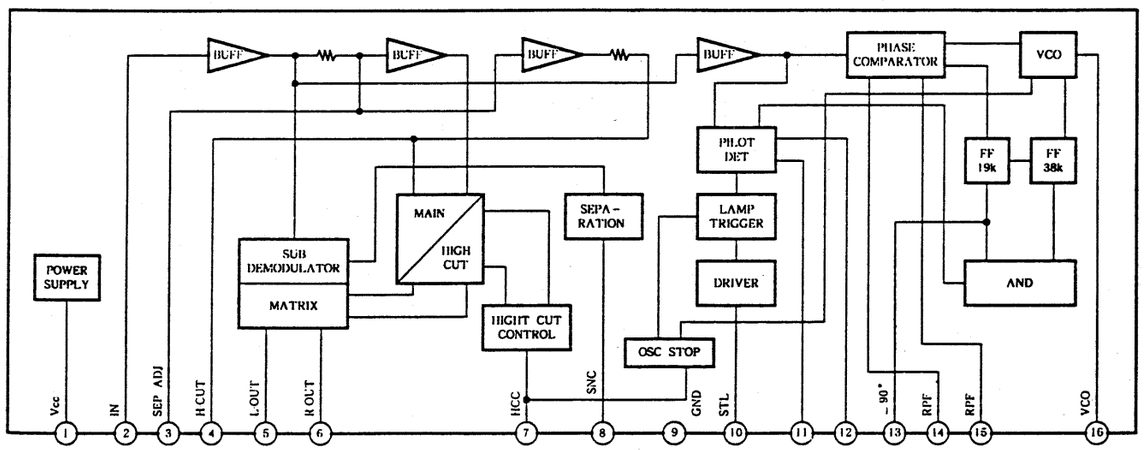
IC500 TA8210H



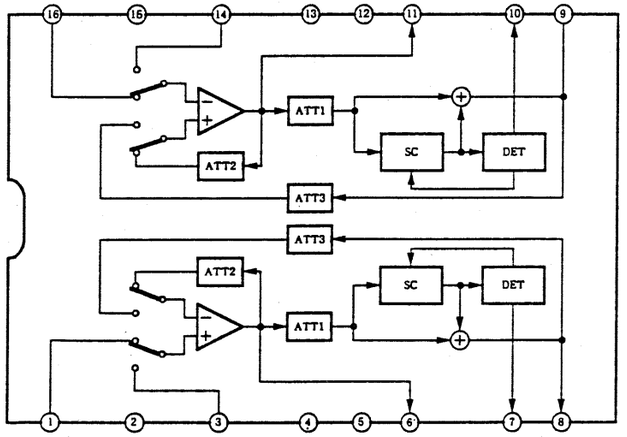
IC300 LA1135



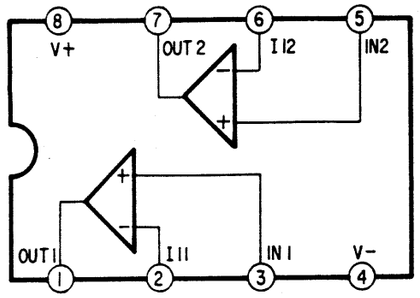
IC250 LA3370



IC400 CXA1163P



IC450 μ PC4558G2



2. CIRCUIT CHANGE
● PRINTED WIRING BOARD

5−1. SEMICONDUCTOR LEAD LAYOUTS

CXA1163P

TA8210H

2SA874
2SA937
2SC2021
2SD1055
2SD1225M
DTA124EF
DTC143TF
DTC144EF

2SD862

1SS133
HZ6C2L

LA1140
LA2110
LA3370

TDA1579

2SK427

DSA3A4

2SC2001

LA1135
LA2211

μPC4558G2

2SC2785-E

10E-2
1S2348H
1S2399
RD5,1EB2
RD10EB2
RD16EB2

GL-1HY102

M51524L

μPD1708AG-023-00

2SC3860
2SC4048
RN1209
RN1211

SVC321SP-A2

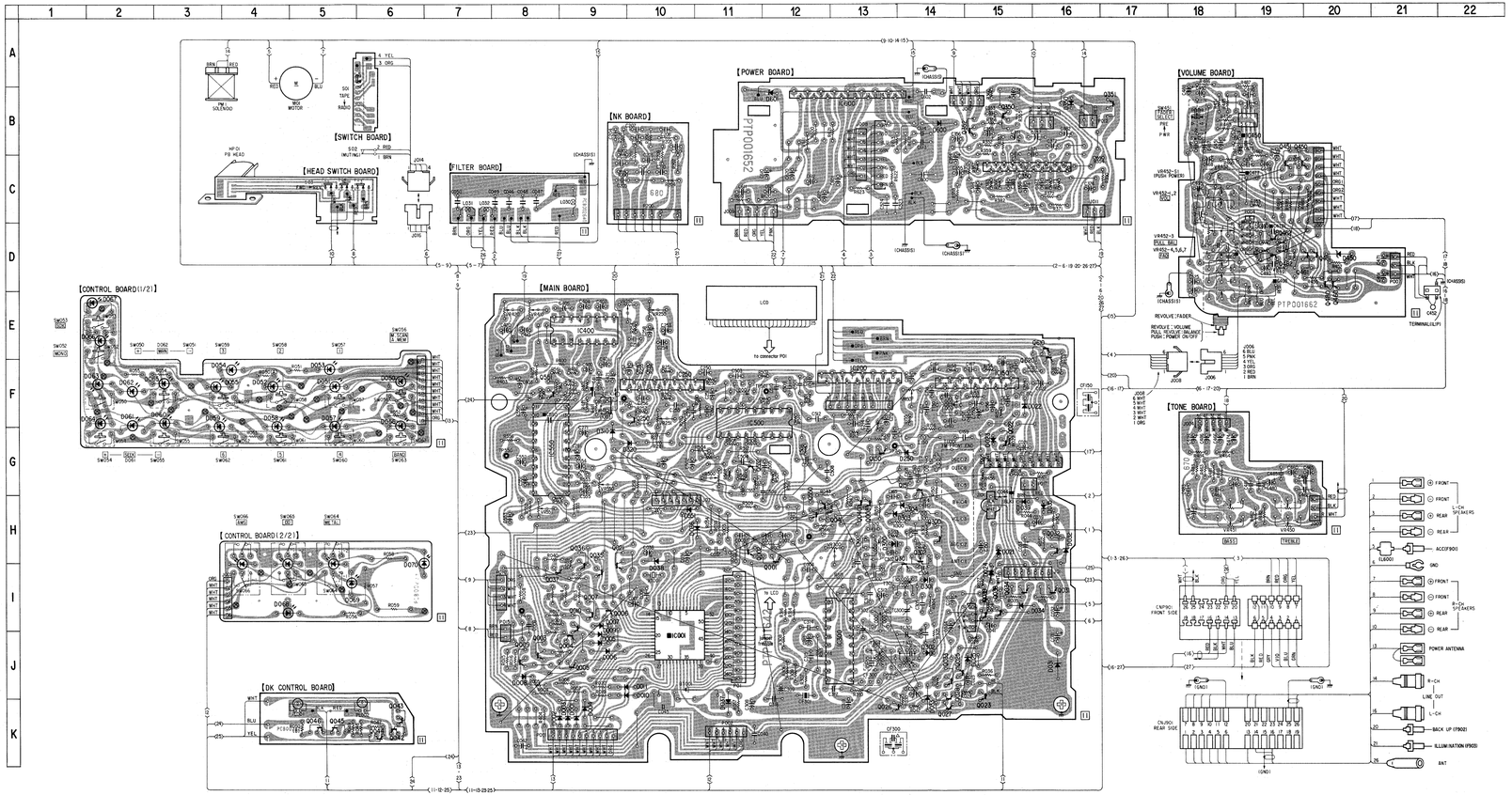
Note:

- Color code or sleeving over the end of the jacket.

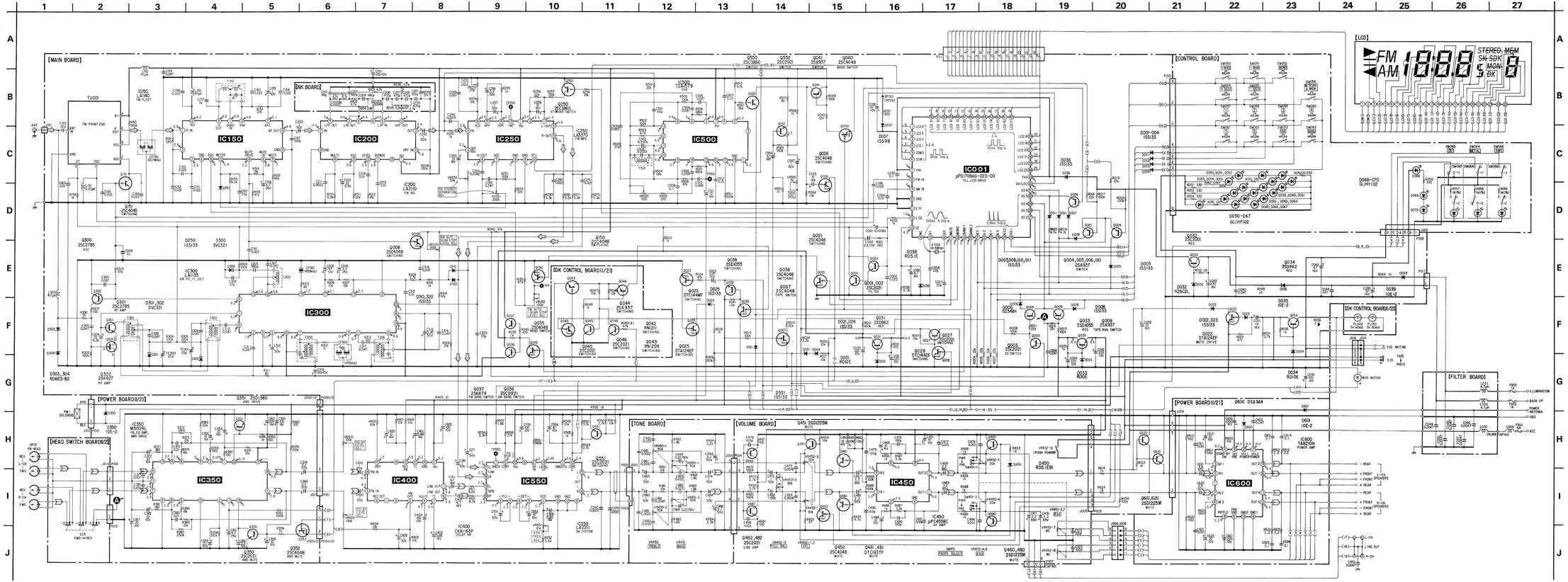
- ○—: parts extracted from the component side.
- —●: parts extracted from the conductor side.
- ■: parts mounted on the conductor side.
- : indicates side identified with part number.
- ⊗: Through hole.
- : Pattern on the side which is seen.
- : Pattern of the rear side.

● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
IC001	J−10	Q551	F−8
IC150	F−15	Q552	G−11
IC200	F−13	Q610	E−16
IC250	F−10	Q620	F−16
IC300	J−13		
		D001	K−9
IC350	C−15	D002	K−8
IC400	E−9	D003	K−9
IC450	B−19	D004	K−9
IC500	F−11	D005	J−9
IC550	G−8		
IC600	B−13	D006	J−9
		D007	I−9
		D008	J−8
Q001	H−12	D009	J−9
Q002	H−11	D010	J−9
Q003	J−8		
Q004	J−9	D011	J−9
Q005	J−9	D021	H−15
		D022	F−15
Q006	I−9	D023	G−15
Q007	I−9	D024	I−15
Q008	H−13		
Q009	J−8	D025	J−15
Q010	I−9	D031	J−16
		D032	H−16
Q021	H−9	D033	K−14
Q022	G−15	D034	I−15
Q023	J−15		
Q025	J−14	D035	H−16
Q026	K−13	D036	H−11
		D037	K−11
Q027	K−14	D038	H−10
Q028	K−14	D039	H−15
Q031	I−16		
Q032	H−16	D050	F−6
Q033	J−14	D051	F−5
		D052	F−4
Q034	I−15	D053	F−5
Q035	H−9	D054	F−4
Q036	H−9		
Q037	I−8	D055	F−3
Q038	I−15	D056	F−6
		D057	F−5
Q039	I−15	D058	F−4
Q040	H−13	D059	F−3
Q041	H−12		
Q042	K−6	D060	F−3
Q043	K−6	D061	F−2
		D062	F−2
Q044	K−6	D063	F−2
Q045	K−5	D064	F−2
Q046	K−5		
Q150	G−13	D065	F−3
Q151	G−14	D066	E−14
		D067	E−2
Q250	F−10	D068	I−4
Q300	H−14	D069	I−5
Q301	I−14		
Q302	H−14	D070	I−6
Q350	B−15	D250	G−14
		D300	H−13
Q351	B−17	D301	E−14
Q352	B−15	D302	J−14
Q450	C−19		
Q451	C−19	D303	H−13
Q460	D−20	D304	H−14
		D310	G−9
Q461	D−20	D320	G−10
Q462	D−19	D350	B−16
Q480	D−20		
Q481	D−20	D450	D−20
Q482	D−19	D551	H−10
		D600	B−14
Q550	H−12	D601	B−12



● SCHEMATIC DIAGRAM



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- % : indicates tolerance.
- **Switch**

Ref. No.	Switch	Position
S01	TAPE/RADIO	TAPE
S03	FWD/REV	FWD
S04	MUTING	OFF
SW050	MAN +	OFF
SW051	MAN –	OFF
SW052	MONO	OFF
SW053	SDK	OFF
SW054	SEEK +	OFF
SW055	SEEK –	OFF
SW056	M.SCAN/A.MEM	OFF
SW057	1	OFF
SW058	2	OFF
SW059	3	OFF
SW060	4	OFF
SW061	5	OFF
SW062	6	OFF
SW063	BAND	FM
SW064	METAL	OFF
SW065	□□	OFF
SW066	AMS	OFF
SW451	FADER SELECT	OFF

- ⎓ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from external power voltage terminal.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (50 kΩ/V). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path. ⇨ : FM ⇦ : PB